

NAEP 1994 TRENDS IN ACADEMIC PROGRESS

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Science

NAEP 1994 Science Trend Assessment — Age 9

Average science scale scores across assessment years

Weighted percentages and average science scale scores and jackknifed standard errors

	1970	1973	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	225.0(1.2)*	220.0(1.2)†*	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
			219.9(1.2)†*	220.8(1.8)*	224.3(1.2)*	228.7(0.8)	230.6(1.0)†	231.0(1.2)#	LQ
GENDER									
Male	228.0(1.3)	223.0(1.3)†*	50.6(0.4)	50.5(1.5)	50.0(0.6)	49.4(0.6)	48.6(0.6)†	48.7(0.8)#	L
			222.1(1.3)†*	221.0(2.3)*	227.3(1.4)	230.3(1.1)	234.7(1.2)†	232.2(1.3)#	LQ
Female	223.0(1.2)*	218.0(1.2)†*	49.4(0.4)	49.5(1.5)	50.0(0.6)	50.6(0.6)	51.4(0.6)†	50.8(0.8)	L
			217.6(1.2)†*	220.7(2.0)*	221.3(1.4)*	227.1(1.0)	226.7(1.0)	230.0(1.4)#	LQ
RACE/ETHNICITY									
White	236.0(0.9)*	231.0(0.9)†*	79.6(1.6)*	78.6(2.6)	76.5(1.1)	74.5(1.1)†	75.4(0.9)	74.1(0.9)#	L
			229.6(0.9)†*	229.0(1.9)†*	231.9(1.2)†*	237.5(0.8)	239.1(1.0)	240.3(1.3)#	LQ
Black	179.0(1.9)*	177.0(1.9)*	13.7(1.4)	14.3(2.1)	14.9(0.5)	16.3(0.7)	15.9(0.4)	15.0(0.5)	N
			174.8(1.8)*	187.0(3.0)*	196.2(1.9)†	196.4(2.0)†	200.3(2.7)†	201.4(1.7)#	L
Hispanic			5.3(0.9)	5.2(1.3)	6.2(1.1)	5.5(0.6)	5.6(0.8)	6.1(0.4)	N
			191.9(2.7)	189.0(4.2)	199.4(3.1)	206.2(2.2)†	204.7(2.8)†	201.0(2.7)#	L
Other			1.5(0.3)*	2.0(1.0)	2.5(0.5)	3.8(1.0)	3.0(0.4)†	4.0(0.4)#	L
			214.4(5.4)	222.8(5.3)	220.6(4.6)	227.4(3.6)	226.5(3.4)	215.7(4.2)	N
REGION									
Northeast	230.0(2.9)	222.0(2.9)*	25.3(1.5)	19.0(2.3)	21.1(1.1)	23.2(0.9)	20.9(1.2)	21.8(0.9)#	Q
			224.4(1.6)*	221.8(2.9)*	228.2(3.5)	231.1(2.4)	234.4(2.8)	234.6(2.5)	LQ
Southeast	206.0(1.6)*	207.0(1.6)*	20.2(1.2)	22.6(2.7)	22.5(4.7)	24.1(0.9)†	24.1(1.3)	24.5(1.5)#	L
			205.1(2.9)*	213.9(3.6)*	218.8(3.1)†	219.9(1.9)†	222.8(1.7)†	227.4(2.2)#	L
Central	233.0(3.0)	228.0(3.0)	29.5(1.9)	30.1(4.3)	28.6(4.0)	24.3(0.6)†	28.2(0.8)	25.9(1.0)	N
			225.2(2.2)*	226.3(3.5)	227.9(2.2)	234.2(1.7)	237.5(1.8)	236.2(2.7)	LQ
West	226.0(2.2)	221.0(2.2)	25.0(2.0)	28.4(2.7)	27.7(1.6)	28.4(0.8)	26.7(0.8)	27.8(1.0)	N
			220.9(2.2)	219.9(4.1)	222.1(3.2)	229.5(1.8)	227.4(2.2)	226.4(2.7)	L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 9

Average science scale scores across assessment years

Weighted percentages and average science scale scores and jackknifed standard errors
(continued)

	1977	1982	1986	1990	1992	1994	TREND TESTS
PARENTS' EDUCATION LEVEL							
Less Than H.S.	9.0(0.4)*	6.5(0.9)*	4.2(0.4)†	4.9(0.4)†	4.2(0.3)†	3.8(0.4)#	LQ
	198.5(2.2)*	198.2(6.0)	203.6(2.9)	209.8(2.7)†	217.2(2.6)†	211.4(3.4)#	L
Graduated H.S.	26.7(0.5)*	14.7(1.1)†	16.4(0.7)†	16.0(0.7)†	13.5(0.7)†	14.0(0.6)#	LQ
	223.0(1.4)	218.0(3.3)	219.6(1.5)*	225.8(1.7)	222.0(1.9)	225.3(1.4)	Q
Some Educ. After H.S.	7.2(0.3)	8.3(0.6)	6.6(0.6)	7.4(0.4)	7.8(0.4)	7.0(0.4)	N
	237.2(1.5)	229.1(3.2)	235.8(2.6)	237.6(2.1)	236.6(2.4)	238.9(2.8)	N
Graduated College	23.1(0.7)*	42.0(2.3)†	37.8(1.1)†*	40.1(1.1)†*	41.5(1.2)†	45.0(0.8)#	LQ
	232.3(1.4)*	230.5(2.3)*	235.2(1.4)	236.2(1.3)	238.9(1.2)†	238.5(1.4)#	L
Unknown	34.0(0.7)*	28.5(1.8)†	34.9(1.0)*	31.7(0.8)	33.0(0.8)	30.2(0.8)#	N
	211.0(1.4)*	210.8(2.8)*	215.3(1.5)*	221.5(1.2)†	224.2(1.4)†	223.4(1.9)#	L
GRADE							
Below Modal Grade	24.1(1.0)*	30.0(1.9)†	33.9(1.7)†	34.8(1.4)†	37.6(1.2)†	33.4(1.3)#	LQ
	197.5(1.6)*	197.5(2.9)*	204.9(1.6)†*	210.9(1.5)†	214.8(1.4)†	215.2(1.7)#	L
At Modal Grade	74.8(1.0)*	69.5(1.9)	65.8(1.7)†	64.8(1.4)†	62.1(1.2)†	66.4(1.3)#	LQ
	227.0(1.2)*	230.7(2.2)*	234.3(1.2)†*	238.2(1.0)†	240.1(1.0)†	238.9(1.3)#	L
Above Modal Grade	0.7(0.1)*	0.5(0.2)	0.3(0.1)†	0.3(0.1)†	0.3(0.1)†	***(***)	L
	243.9(6.2)	265.9(13.1)	235.0(10.7)	234.8(9.6)	247.6(16.2)	236.3(14.6)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 9

Average science scale scores across assessment years

Weighted percentages and average science scale scores and jackknifed standard errors
(continued)

	1977	1982	1986	1990	1992	1994	TREND TESTS
TYPE OF SCHOOL							
Public	88.8(1.2)	90.4(2.3)	83.9(2.7)	88.9(2.1)	86.6(1.6)	88.1(1.8)	N
	218.0(1.4)*	219.7(2.0)*	222.6(1.4)*	227.7(0.9)†	229.1(1.0)†	229.5(1.4)#	L
Non-Public	11.2(1.2)	9.6(2.3)	16.1(2.7)	11.1(2.1)	13.4(1.6)	11.9(1.8)	N
	234.6(2.2)	231.5(3.2)	233.0(2.9)	236.8(2.4)	240.2(2.7)	242.2(2.8)#	LQ
QUARTILES							
Upper	25.0(0.8)	25.0(1.7)	25.0(0.9)	24.9(0.8)	25.1(0.8)	26.5(0.8)	N
	265.6(0.9)*	268.3(1.8)	268.8(1.2)*	271.0(0.8)†	272.7(1.2)†	273.0(1.0)#	L
Middle Two	50.0(0.8)	50.1(1.5)	49.9(0.9)	50.2(0.9)	50.0(0.8)	48.1(0.6)	N
	222.1(0.5)*	221.7(1.1)*	225.8(0.6)†*	231.0(0.5)†	232.5(0.7)†	233.0(1.1)#	LQ
Lower	25.0(1.2)	24.9(1.5)	25.0(1.3)	25.0(0.9)	24.9(0.9)	25.4(0.7)	N
	169.6(1.1)*	171.4(2.0)*	176.7(1.0)†*	181.9(0.9)†	184.4(1.2)†	183.4(1.2)#	L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

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Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 13

Average science scale scores across assessment years

Weighted percentages and average science scale scores and jackknifed standard errors

	1970	1973	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL			100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
	255.0(1.1)	250.0(1.1)†*	247.4(1.1)†*	250.1(1.3)†*	251.4(1.4)*	255.2(0.9)	258.0(0.8)	256.8(1.0)	LQ
GENDER									
Male			49.8(0.3)	48.5(0.7)	49.8(0.9)	49.8(0.6)	49.9(0.8)	49.2(0.8)	N
	257.0(1.3)	252.0(1.3)†*	251.1(1.3)†*	255.6(1.5)	256.1(1.6)	258.5(1.1)	260.1(1.2)	259.4(1.2)	LQ
Female			50.2(0.3)	51.5(0.7)	50.2(0.9)	50.2(0.6)	50.1(0.8)	50.8(0.8)	N
	253.0(1.2)	247.0(1.2)†*	243.7(1.2)†*	245.0(1.3)†*	246.9(1.5)†*	251.8(1.1)	256.0(1.0)	254.3(1.2)	LQ
RACE/ETHNICITY									
White			80.4(1.6)*	79.2(2.1)*	76.8(1.0)*	73.4(0.7)†	74.2(0.5)†	72.0(0.8)#	L
	263.0(0.8)*	259.0(0.8)†*	256.1(0.8)†*	257.3(1.1)†*	259.2(1.4)*	264.1(0.9)	267.1(1.0)†	266.5(1.0)#	LQ
Black			13.0(1.2)	13.8(1.9)	14.4(0.9)	15.6(0.3)	15.9(0.3)	15.1(0.3)	L
	215.0(2.4)	205.0(2.4)†*	208.1(2.4)*	217.1(1.3)	221.6(2.5)	225.7(3.1)†	224.4(2.7)	223.9(4.2)	L
Hispanic			5.0(1.1)*	5.3(1.0)*	6.6(1.1)	7.3(0.5)	7.0(0.5)	8.0(0.4)#	L
			213.4(1.9)*	225.5(3.9)†	226.1(3.1)†	231.6(2.6)†	237.5(2.6)†	232.1(2.4)#	L
Other			1.6(0.4)*	1.7(0.7)*	2.2(0.3)*	3.7(0.8)	2.9(0.3)†	3.7(0.2)#	L
			235.0(3.3)*	262.4(5.9)†	253.0(4.0)†	248.2(10.9)	260.7(2.7)†	257.4(4.3)#	L
REGION									
Northeast			25.6(1.5)*	24.0(2.9)	22.4(1.6)	24.3(1.0)*	20.9(0.8)†	20.2(0.9)#	L
	261.0(2.2)	256.0(2.2)	255.2(2.3)	254.1(2.1)*	257.6(3.1)	256.8(2.7)	256.8(2.2)	262.7(1.7)#	Q
Southeast			21.3(1.1)	22.2(2.3)	24.7(5.8)	23.1(0.8)	23.9(1.6)	22.2(1.7)	N
	239.0(2.4)*	237.0(2.4)*	235.1(1.8)*	238.7(2.3)*	247.1(2.2)	251.3(1.9)†	254.2(2.8)†	252.6(2.6)#	LQ
Central			27.4(1.9)	27.9(3.9)	24.9(5.0)	23.5(0.7)	26.6(1.0)	26.6(1.8)	N
	262.0(1.8)	256.0(1.8)	253.8(1.8)†	253.8(2.6)	249.4(5.3)	260.4(2.8)	262.5(2.1)	261.1(3.5)	Q
West			25.7(2.1)	25.9(2.5)	28.0(1.5)	29.1(0.9)	28.6(0.9)	31.0(1.1)#	L
	255.0(1.8)	248.0(1.8)†	243.0(2.3)†*	252.4(2.8)	252.3(2.7)	252.6(2.1)	258.0(1.6)	252.2(2.1)	LQ

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Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 13

Average science scale scores across assessment years

Weighted percentages and average science scale scores and jackknifed standard errors
(continued)

	1977	1982	1986	1990	1992	1994	TREND TESTS
PARENTS' EDUCATION LEVEL							
Less Than H.S.	12.7(0.7)*	9.7(0.6)†*	7.9(1.1)†	7.6(0.5)†	5.9(0.5)†	6.2(0.4)#	L
	223.5(1.3)*	225.3(1.9)*	229.4(2.7)	232.9(2.1)†	233.8(2.9)†	234.3(2.5)#	L
Graduated H.S.	32.8(0.6)*	25.6(1.1)†	31.0(1.3)*	26.8(0.8)†*	23.1(0.9)†	23.1(0.9)#	L
	245.3(1.1)	243.1(1.3)	244.8(1.4)	247.3(1.3)	246.4(1.4)	247.1(1.2)	L
Some Educ. After H.S.	15.0(0.5)	16.8(0.6)	15.6(0.6)	16.8(0.6)	18.4(0.7)†	16.8(0.6)#	L
	260.3(1.3)	258.8(1.5)	257.8(1.4)	262.8(1.2)	265.9(1.1)†	260.4(2.0)	L
Graduated College	26.6(1.0)*	37.3(1.5)†*	37.5(2.0)†*	40.8(1.2)†*	44.1(1.3)†	45.5(1.3)#	L
	266.4(1.0)	263.5(1.5)*	264.4(1.9)	267.5(1.1)	269.2(1.0)	268.8(1.3)	LQ
Unknown	12.9(1.1)*	10.5(1.2)	8.0(0.4)†	7.9(0.5)†	8.4(0.4)†	8.3(0.5)#	LQ
	221.9(1.8)*	229.1(2.8)	226.5(2.7)	224.3(2.1)	231.6(2.0)†	230.2(2.5)#	L
GRADE							
Below Modal Grade	27.2(0.9)*	28.0(1.3)*	32.7(2.1)	36.1(1.3)†	37.4(1.1)†	37.6(1.3)#	L
	223.4(1.6)*	228.6(1.6)*	234.2(1.9)†*	239.5(1.6)†	244.3(1.4)†	244.3(1.5)#	L
At Modal Grade	71.6(0.7)*	71.7(1.3)*	66.8(2.1)	63.4(1.4)†	62.4(1.0)†	61.5(1.3)#	L
	255.9(1.0)*	258.5(1.3)*	259.8(1.3)	264.0(1.0)†	266.1(1.0)†	264.0(1.1)#	L
Above Modal Grade	1.1(0.4)	0.2(0.1)	0.5(0.1)	0.5(0.2)	0.2(0.1)	*** (***)	N
	284.7(3.9)	287.4(8.2)	266.4(6.3)	262.5(17.5)	312.8(14.9)	290.7(24.7)	N

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Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 13

Average science scale scores across assessment years

Weighted percentages and average science scale scores and jackknifed standard errors
(continued)

	1977	1982	1986	1990	1992	1994	TREND TESTS
TYPE OF SCHOOL							
Public	90.4(1.4)	89.4(1.7)	95.9(1.8)*	89.6(1.4)	88.1(1.9)	88.4(1.7)	Q
	245.2(1.2)*	248.5(1.4)*	250.9(1.4)†	253.6(1.1)†	257.2(1.0)†	255.4(1.1)#	L
Non-Public	9.6(1.4)	10.6(1.7)	4.1(1.8)*	10.4(1.4)	11.9(1.9)	11.6(1.7)	Q
	267.7(2.1)	263.7(3.2)	263.1(6.4)	269.0(1.8)	264.5(2.4)	267.6(2.6)	N
QUARTILES							
Upper	25.0(1.0)	25.0(1.4)	25.0(1.2)	25.0(1.0)	25.0(1.0)	24.6(0.9)	N
	290.5(0.5)*	290.5(0.9)*	292.1(1.1)*	297.1(0.7)†	298.1(1.0)†	297.9(1.2)#	L
Middle Two	50.0(0.6)	50.0(1.0)	50.0(0.9)	49.9(0.9)	49.9(0.8)	48.9(0.8)	N
	249.0(0.6)*	251.1(0.6)*	252.3(0.7)†*	256.2(0.6)†*	260.1(0.5)†	259.4(0.7)#	LQ
Lower	25.0(1.2)	25.0(1.4)	25.0(1.4)	25.0(0.9)	25.0(0.8)	26.4(0.9)	N
	201.1(0.8)*	208.1(0.8)†*	209.2(0.9)†*	211.2(1.2)†	213.9(0.8)†	213.7(1.3)#	L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

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Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 17

Average science scale scores across assessment years

Weighted percentages and average science scale scores and jackknifed standard errors

	1970	1973	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	305.0(1.0)*	296.0(1.0)†	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
			289.5(1.0)†	283.3(1.2)†*	288.5(1.4)†	290.4(1.1)†	294.1(1.3)†	294.0(1.6)#	LQ
GENDER									
Male	314.0(1.2)*	304.0(1.2)†	49.5(0.7)	48.4(0.7)	49.0(1.2)	48.6(0.9)	50.7(1.2)	49.3(1.3)	N
			297.0(1.2)†	291.9(1.4)†*	294.9(1.9)†	295.6(1.3)†	299.1(1.7)†	299.5(2.0)#	LQ
Female	297.0(1.1)*	288.0(1.1)†	50.5(0.7)	51.6(0.7)	51.0(1.2)	51.4(0.9)	49.3(1.2)	50.3(1.3)	N
			282.2(1.1)†*	275.2(1.3)†*	282.3(1.5)†*	285.4(1.6)†	289.0(1.5)†	288.9(1.7)#	LQ
RACE/ETHNICITY									
White	312.0(0.8)*	304.0(0.8)†	83.4(1.3)*	80.7(2.0)*	77.6(0.5)†*	73.3(0.5)†	74.6(0.5)†*	71.7(0.6)#	L
			297.7(0.7)†*	293.1(1.0)†*	297.5(1.7)†*	300.9(1.1)†*	304.2(1.3)†	306.0(1.5)#	LQ
Black	258.0(1.5)	250.0(1.5)†	11.6(1.1)*	12.5(1.4)	14.3(0.3)	15.6(0.3)†	14.8(0.3)†	15.3(0.3)#	L
			240.2(1.5)†*	234.7(1.7)†*	252.8(2.9)	253.0(4.5)	256.2(3.2)	256.8(3.1)	LQ
Hispanic			3.7(0.9)*	4.5(1.1)*	5.5(0.3)*	6.9(0.4)†*	7.4(0.5)†	8.7(0.3)#	L
			262.3(2.2)	248.7(2.3)†	259.3(3.8)	261.5(4.4)	270.2(5.6)	261.4(6.7)	N
Other			1.4(0.2)*	2.2(0.7)	2.6(0.4)†	4.2(0.5)†	3.1(0.2)†	3.2(0.3)#	L
			284.4(4.0)	269.1(5.2)	276.8(11.2)	292.0(5.6)	288.4(4.8)	290.7(8.2)	L
REGION									
Northeast	308.0(2.5)	298.0(2.5)†	24.1(1.7)	24.8(3.0)	23.7(0.8)	22.1(1.0)	21.6(0.9)	22.7(1.0)	N
			296.3(2.2)†	284.4(2.0)†*	292.2(4.3)†	292.6(3.2)†	300.1(2.4)	298.9(4.2)	Q
Southeast	287.0(2.3)	283.0(2.3)	18.4(1.0)*	21.1(2.4)	22.9(2.3)	24.3(0.9)†	24.6(1.4)†	24.6(1.5)#	L
			276.4(1.9)†*	276.3(2.7)†*	283.5(2.0)	283.6(2.4)	283.0(2.5)	287.8(2.8)	Q
Central	308.0(1.9)	300.0(1.9)†	33.4(1.6)*	29.5(3.9)	27.7(2.2)	25.9(0.9)†	25.0(1.0)†	25.5(1.1)#	L
			294.0(1.5)†	289.3(2.6)†	294.4(2.3)†	299.6(3.0)	304.2(2.7)	297.8(3.7)#	Q
West	308.0(1.7)*	295.0(1.7)†	24.1(1.9)	24.6(2.6)	25.7(0.9)	27.7(0.9)	28.9(0.9)	27.1(1.0)	L
			286.5(1.5)†	280.9(2.7)†	283.2(3.8)†	285.8(2.3)†	290.4(3.8)†	291.8(4.1)#	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 17

Average science scale scores across assessment years

Weighted percentages and average science scale scores and jackknifed standard errors
(continued)

	1977	1982	1986	1990	1992	1994	TREND TESTS
PARENTS' EDUCATION LEVEL							
Less Than H.S.	15.2(0.9)*	12.8(0.7)*	8.3(0.4)†	7.9(0.6)†	8.1(0.6)†	7.0(0.5)#	LQ
	265.3(1.3)	258.5(2.4)	257.5(3.1)	261.4(2.8)	262.0(3.8)	255.8(4.2)#	N
Graduated H.S.	33.1(0.6)*	28.7(0.9)†*	27.9(1.1)†*	26.4(1.1)†*	21.4(0.9)†	22.1(0.8)#	L
	284.4(0.8)*	275.2(1.6)†	277.0(2.0)†	276.3(1.4)†	280.2(2.4)	279.2(1.7)#	Q
Some Educ. After H.S.	17.0(0.4)*	21.5(0.6)†	24.1(1.0)†	23.8(0.9)†	25.4(0.9)†	23.5(1.1)#	LQ
	295.6(1.1)	290.1(1.7)†	295.1(2.5)	296.5(1.6)	295.9(1.7)	294.8(1.9)	N
Graduated College	30.2(1.2)*	32.4(1.4)*	36.9(1.2)†*	38.9(1.4)†*	42.6(1.4)†	44.4(1.5)#	L
	309.3(1.0)	300.2(1.7)†*	303.8(2.1)	305.5(1.7)	308.3(1.3)	310.6(1.6)	LQ
Unknown	4.4(0.4)*	4.7(0.8)	2.8(0.3)†	3.0(0.4)†	2.5(0.3)†	3.1(0.3)#	L
	252.6(3.2)	251.6(3.9)	245.4(5.5)	248.2(5.5)	257.6(7.4)	246.7(6.7)	N
GRADE							
Below Modal Grade	14.4(0.6)*	15.5(1.0)*	16.8(0.9)	21.7(1.0)†	23.9(1.1)†	20.6(1.6)#	L
	253.2(1.4)	250.8(2.2)*	259.2(2.7)	260.5(2.0)†	262.9(2.6)†	262.4(3.4)#	L
At Modal Grade	74.9(0.6)	75.1(1.0)	75.3(1.2)	70.2(1.0)†	70.1(1.0)†	73.1(1.7)	L
	294.9(0.9)*	288.8(1.1)†*	294.0(1.6)*	298.7(1.0)†	303.8(1.2)†	302.1(1.3)#	LQ
Above Modal Grade	10.7(0.5)*	9.4(0.7)*	7.9(0.7)†	8.1(0.6)†	6.1(0.5)†	6.3(0.6)#	L
	300.7(1.5)	292.5(2.6)†	298.6(4.3)	298.3(2.5)	304.7(4.1)	302.9(4.2)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 17

Average science scale scores across assessment years

Weighted percentages and average science scale scores and jackknifed standard errors
(continued)

	1977	1982	1986	1990	1992	1994	TREND TESTS
TYPE OF SCHOOL							
Public	93.6(1.8)	90.1(2.0)	96.0(1.4)*	92.8(1.8)	90.2(2.4)	87.8(2.3)#	N
	288.2(1.0)	282.3(1.1)†*	287.1(1.6)	289.0(1.1)	292.2(1.3)	291.7(1.5)	LQ
Non-Public	6.4(1.8)	9.9(2.0)	4.0(1.4)*	7.2(1.8)	8.6(2.1)	12.2(2.3)#	N
	308.4(2.4)	292.0(2.9)†*	321.3(10.1)	307.8(6.6)	311.7(3.7)	310.4(4.8)	N
QUARTILES							
Upper	25.0(0.8)	24.9(0.9)	25.0(1.3)	25.0(0.9)	24.9(1.1)	24.3(1.2)	N
	333.6(0.9)*	328.9(1.0)†*	339.9(1.1)†*	344.3(0.7)†	346.4(0.7)†	346.6(0.9)#	LQ
Middle Two	50.0(0.5)	50.1(1.1)	50.0(1.2)	50.1(0.8)	50.1(1.0)	51.9(1.3)	N
	291.2(0.5)*	286.1(0.7)†*	289.6(0.7)*	291.6(0.7)*	295.3(1.0)†	295.8(0.7)#	LQ
Lower	25.0(0.9)	25.0(1.3)	25.0(1.6)	25.0(1.0)	25.0(1.0)	23.8(1.3)	N
	242.0(0.8)*	232.1(1.3)†	234.7(1.3)†	234.0(1.2)†	239.6(1.9)	236.0(1.7)#	Q

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 9

Average science scale scores across assessment years

Weighted percentages of observations with average science scale scores at or above 150

	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	93.5(0.6)*	95.2(0.7)	96.2(0.3)†	97.0(0.3)†	97.4(0.3)†	97.2(0.4)#	L
GENDER							
Male	94.3(0.5)*	95.0(1.0)	96.8(0.5)†	96.8(0.5)†	97.7(0.3)†	97.1(0.4)#	L
Female	92.8(0.7)*	95.5(1.2)	95.6(0.6)†	97.1(0.4)†	97.1(0.5)†	97.3(0.5)#	L
RACE/ETHNICITY							
White	97.7(0.3)*	98.3(0.4)	98.2(0.3)	99.2(0.2)†	99.2(0.1)†	99.1(0.3)#	L
Black	72.4(1.8)*	82.1(3.0)†*	88.6(1.4)†	88.0(1.3)†	90.7(1.8)†	91.0(1.5)#	LQ
Hispanic	84.6(1.8)	85.1(3.1)	89.6(2.4)	93.6(1.5)†	92.4(1.7)†	91.1(2.3)#	L
Other	94.9(2.4)	95.7(3.2)	95.9(1.8)	96.3(2.6)	96.3(1.8)	93.9(1.7)	N
GRADE							
Below Modal Grade	86.2(1.1)*	88.5(1.9)*	91.8(0.8)†	93.2(0.9)†	94.5(0.7)†	94.3(0.9)#	L
At Modal Grade	95.9(0.6)*	98.1(0.6)†	98.5(0.3)†	99.0(0.3)†	99.2(0.2)†	98.6(0.3)#	LQ
Above Modal Grade	96.4(2.2)	100.0(0.0)	98.5(3.7)	100.0(0.0)	99.0(1.5)	***(***)	N
REGION							
Northeast	94.6(0.7)*	94.5(1.4)	96.7(0.9)	97.1(0.6)†	97.9(0.9)†	97.9(0.5)#	L
Southeast	87.8(1.8)*	92.7(1.6)	95.0(1.2)†	94.6(0.9)†	95.6(0.5)†	96.5(0.8)#	L
Central	95.5(0.8)	97.5(1.1)	97.1(0.6)	98.4(0.7)†	98.7(0.5)†	98.0(0.7)#	L
West	94.9(1.1)	95.4(1.3)	95.9(0.7)	97.7(0.7)	97.3(0.5)	96.3(0.8)	L
PARENTS' EDUCATION LEVEL							
Less Than H.S.	86.0(1.7)*	85.5(3.5)	90.1(3.4)	93.3(2.3)†	96.0(1.5)†	93.2(1.9)#	L
Graduated H.S.	95.0(0.5)	96.1(1.0)	95.6(0.6)	96.9(0.8)	95.2(0.7)	96.6(0.8)	N
Some Educ. After H.S.	97.1(0.9)	96.6(1.8)	98.0(1.1)	97.6(1.2)	97.6(1.0)	97.8(1.0)	N
Graduated College	96.8(0.6)	97.2(0.7)	98.0(0.4)	98.1(0.4)	98.5(0.5)	98.2(0.3)#	L
Unknown	91.4(0.8)*	93.8(1.9)	95.0(0.6)†	96.0(0.6)†	97.1(0.5)†	96.3(0.8)#	L
TYPE OF SCHOOL							
Public	93.0(0.7)*	94.9(0.8)	95.8(0.4)†	96.7(0.4)†	97.1(0.4)†	96.9(0.4)#	L
Non-Public	98.1(0.6)	98.9(1.4)	98.2(0.7)	98.7(0.9)	99.2(0.6)	99.3(0.4)	N
QUARTILES							
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	99.5(0.1)*	100.0(0.1)†	99.8(0.1)	100.0(0.0)†	100.0(0.0)†	100.0(0.1)#	L
Lower	75.2(1.4)*	81.0(2.5)*	85.2(1.1)†	87.9(1.2)	89.6(1.3)†	88.9(1.3)#	L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 9

Average science scale scores across assessment years

Weighted percentages of observations with average science scale scores at or above 200

	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	68.0(1.1)*	70.7(1.9)*	72.0(1.1)†*	76.4(0.9)†	78.0(1.2)†	77.4(1.0)#	L
GENDER							
Male	69.5(1.2)*	69.7(2.0)*	74.1(1.4)	76.3(1.2)†	80.4(1.4)†	77.6(0.9)#	L
Female	66.5(1.1)*	71.8(2.2)	70.0(1.3)*	76.4(1.1)†	75.7(1.2)†	77.2(1.4)#	L
RACE/ETHNICITY							
White	76.8(0.7)*	78.4(2.0)*	78.9(1.0)*	84.4(0.7)†	85.5(0.9)†	85.6(1.0)#	L
Black	27.2(1.5)*	38.9(2.7)†*	46.2(2.3)†	46.4(3.1)†	51.3(3.5)†	51.6(2.3)#	LQ
Hispanic	42.0(3.1)	40.2(6.1)	50.1(3.7)	56.3(3.7)†	55.5(4.3)	49.9(3.1)	L
Other	62.0(6.9)	77.0(5.6)	67.4(4.1)	76.3(7.0)	73.2(3.7)	65.3(5.6)	N
GRADE							
Below Modal Grade	48.8(1.8)*	50.1(3.3)*	55.1(1.7)*	61.1(2.1)†	64.5(1.6)†	64.4(1.4)#	L
At Modal Grade	74.2(1.1)*	79.6(1.9)	80.7(0.9)†	84.5(1.0)†	86.1(1.3)†	83.8(1.3)#	L
Above Modal Grade	83.0(4.1)	95.6(8.8)	77.5(9.8)	84.7(12.1)	86.3(11.1)	***(***)	N
REGION							
Northeast	72.6(1.6)	71.5(3.5)	75.6(2.5)	78.2(2.3)	80.6(2.2)†	80.0(2.7)#	L
Southeast	55.0(2.4)*	63.0(3.6)	67.3(3.0)†	68.4(2.4)†	71.4(2.4)†	74.5(2.7)#	L
Central	72.5(2.1)*	75.4(3.7)	75.2(2.1)	81.9(1.3)†	83.7(1.4)†	81.9(2.2)#	L
West	68.5(2.3)	71.4(3.8)	69.9(3.0)	76.8(2.1)†	75.9(2.7)	73.6(2.1)	L
PARENTS' EDUCATION LEVEL							
Less Than H.S.	49.8(2.4)	54.9(8.7)	55.1(3.6)	60.5(4.2)	68.5(3.2)†	61.8(4.0)#	L
Graduated H.S.	71.2(1.4)	68.2(4.3)	69.1(1.9)	75.2(2.1)	71.2(2.0)	73.7(1.9)	N
Some Educ. After H.S.	81.9(1.5)	80.7(2.4)	80.2(1.9)	81.3(2.3)	82.1(1.9)	82.8(2.5)	N
Graduated College	77.7(1.2)*	78.8(2.0)	80.4(1.2)	81.9(1.2)	84.3(1.3)†	83.1(1.3)#	L
Unknown	60.8(1.5)*	60.9(3.6)*	65.0(2.0)	71.3(1.4)†	73.2(1.8)†	71.6(2.0)#	L
TYPE OF SCHOOL							
Public	66.4(1.3)*	69.5(2.1)*	70.5(1.3)*	75.5(1.0)†	76.7(1.3)†	76.1(1.2)#	L
Non-Public	80.3(1.7)	82.6(3.5)	79.7(2.3)	83.6(2.4)	86.2(2.0)	87.1(2.4)#	L
QUARTILES							
Upper	99.0(0.3)*	100.0(0.0)†	99.7(0.2)	99.9(0.1)	99.9(0.1)	99.9(0.1)#	L
Middle Two	78.4(0.6)*	85.6(1.9)†*	84.9(1.1)†*	90.0(0.8)†	91.3(1.0)†	91.3(0.9)#	L
Lower	16.2(1.1)*	11.6(2.0)*	18.6(1.6)*	25.6(2.0)†	29.2(2.3)†	27.3(2.1)#	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 9

Average science scale scores across assessment years

Weighted percentages of observations with average science scale scores at or above 250

	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	25.7(0.7)*	24.3(1.8)*	27.5(1.4)*	31.1(0.8)†	32.8(1.0)†	33.7(1.2)#	LQ
GENDER							
Male	27.4(0.9)*	25.6(2.6)*	29.9(2.0)	33.1(1.1)†	37.2(1.7)†	35.3(1.4)#	L
Female	24.0(0.9)*	23.0(2.0)*	25.1(1.4)*	29.1(1.0)†	28.6(1.1)†	32.2(1.5)#	LQ
RACE/ETHNICITY							
White	30.8(0.7)*	29.4(2.1)*	32.7(1.5)*	37.5(1.1)†	39.4(1.1)†	40.8(1.5)#	LQ
Black	3.5(0.6)*	3.9(1.3)*	8.3(1.5)†	8.5(1.1)†	9.2(1.4)†	11.1(1.4)#	L
Hispanic	8.8(1.7)	4.2(2.7)	10.7(2.4)	11.6(2.1)	11.7(1.8)	10.8(2.5)	L
Other	20.5(4.9)	23.4(11.1)	27.1(5.8)	30.1(6.0)	30.4(4.7)	22.1(4.3)	N
GRADE							
Below Modal Grade	11.0(0.9)*	8.4(1.7)*	13.0(1.3)*	16.5(1.2)†	20.0(1.6)†	20.3(1.6)#	LQ
At Modal Grade	30.3(0.9)*	31.0(2.5)*	35.0(1.7)	39.0(1.1)†	40.4(1.0)†	40.5(1.6)#	L
Above Modal Grade	45.7(7.0)	60.5(16.3)	32.8(13.1)	26.9(16.3)	55.7(18.3)	***(***)	N
REGION							
Northeast	28.9(1.1)*	25.8(3.1)*	30.5(2.9)	33.4(2.9)	35.9(2.7)	36.8(2.3)#	L
Southeast	17.2(1.5)*	20.2(3.6)	23.3(3.0)	24.9(1.4)†	26.5(1.8)†	30.4(2.3)#	L
Central	29.2(1.6)*	27.5(3.6)	30.1(2.3)	34.4(1.8)	38.7(2.3)†	38.1(2.6)#	L
West	25.3(1.2)	23.1(4.6)	26.2(2.6)	31.7(1.7)†	29.8(2.2)	30.1(2.7)	L
PARENTS' EDUCATION LEVEL							
Less Than H.S.	12.7(1.3)	8.6(4.0)	12.7(2.7)	16.3(3.5)	19.6(2.8)	16.2(3.1)	L
Graduated H.S.	27.0(1.2)	20.3(3.1)	23.1(1.8)	27.3(1.8)	26.2(1.7)	27.4(2.3)	Q
Some Educ. After H.S.	39.4(1.5)	31.9(5.1)	38.5(3.7)	40.7(2.5)	39.2(3.1)	42.1(4.3)	N
Graduated College	35.1(1.2)*	32.2(2.7)*	36.8(1.8)	38.3(1.2)	40.2(1.4)†	40.6(1.6)#	L
Unknown	18.9(0.8)*	16.1(2.1)*	19.5(1.7)*	23.9(1.3)†	26.5(1.7)†	26.8(1.9)#	LQ
TYPE OF SCHOOL							
Public	24.5(0.9)*	23.9(2.1)*	26.3(1.5)*	30.3(0.8)†	31.5(1.0)†	32.5(1.4)#	L
Non-Public	35.6(1.9)	28.2(5.6)	33.8(2.8)	37.2(3.0)	40.6(3.4)	42.7(2.8)#	LQ
QUARTILES							
Upper	70.1(1.1)*	79.1(3.0)†	76.1(2.0)†	80.2(1.5)†	82.7(1.6)†	82.4(1.4)#	L
Middle Two	16.2(0.6)*	9.1(1.9)†*	16.9(1.5)*	22.1(1.0)†	23.9(1.3)†	24.4(1.6)#	LQ
Lower	0.2(0.1)	0.0(0.1)	0.2(0.2)	0.2(0.1)	0.4(0.2)	0.4(0.2)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 9

Average science scale scores across assessment years

Weighted percentages of observations with average science scale scores at or above 300

	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	3.2(0.3)	2.3(0.7)	3.0(0.5)	3.1(0.3)	3.4(0.3)	3.8(0.4)	N
GENDER							
Male	3.7(0.3)	2.5(1.0)	3.8(0.6)	4.2(0.6)	4.6(0.6)	4.5(0.7)	L
Female	2.6(0.3)	2.1(0.6)	2.2(0.5)	2.0(0.3)	2.2(0.3)	3.2(0.4)	N
RACE/ETHNICITY							
White	3.9(0.3)	2.9(0.9)	3.8(0.6)	3.9(0.4)	4.3(0.4)	4.9(0.6)	L
Black	0.2(0.1)	0.1(0.4)	0.3(0.2)	0.1(0.2)	0.3(0.3)	0.2(0.4)	N
Hispanic	0.3(0.4)	0.0(0.0)	0.2(0.2)	0.4(0.4)	0.4(0.4)	0.7(0.5)	N
Other	1.9(1.0)	0.0(0.0)	2.1(1.1)	3.2(1.5)	3.2(1.5)	1.4(1.6)	N
GRADE							
Below Modal Grade	0.7(0.1)	0.1(0.2)	0.6(0.2)	0.9(0.4)	1.2(0.3)	1.4(0.5)	L
At Modal Grade	3.9(0.4)	3.0(0.9)	4.2(0.7)	4.3(0.5)	4.7(0.4)	5.0(0.6)	L
Above Modal Grade	9.7(5.1)	29.7(17.8)	7.2(5.8)	4.7(7.3)	7.2(8.1)	***(***)	N
REGION							
Northeast	3.6(0.4)	2.6(1.2)	3.7(1.9)	3.4(0.7)	4.1(0.8)	4.5(1.0)	N
Southeast	1.6(0.3)	1.4(0.5)	2.3(0.4)	2.2(0.7)	2.5(0.7)	3.1(1.2)	N
Central	3.8(0.5)	2.9(1.5)	3.2(0.8)	3.8(0.8)	4.4(0.6)	4.3(0.9)	N
West	3.2(0.5)	2.1(1.5)	2.7(0.9)	3.0(0.5)	2.6(0.5)	3.4(0.5)	N
PARENTS' EDUCATION LEVEL							
Less Than H.S.	0.9(0.4)	0.2(0.4)	0.8(0.9)	0.5(0.5)	1.7(1.0)	0.6(0.7)	N
Graduated H.S.	3.2(0.3)	1.8(1.4)	1.6(0.5)	2.0(0.6)	1.8(0.6)	2.5(0.7)	N
Some Educ. After H.S.	5.7(1.0)	2.4(1.8)	4.4(1.4)	5.4(1.3)	4.8(1.5)	6.2(1.5)	N
Graduated College	5.4(0.7)	3.7(1.1)	5.0(1.0)	4.5(0.6)	5.0(0.6)	5.1(0.7)	N
Unknown	1.7(0.4)	0.8(0.5)	1.4(0.4)	1.6(0.5)	1.9(0.4)	2.4(0.5)	N
TYPE OF SCHOOL							
Public	2.9(0.3)	2.3(0.7)	2.8(0.6)	3.0(0.4)	3.2(0.3)	3.6(0.5)	N
Non-Public	5.1(1.1)	2.1(1.2)	4.0(0.7)	3.9(1.0)	4.6(1.3)	5.6(1.0)	Q
QUARTILES							
Upper	12.0(0.9)	9.1(2.3)	11.7(1.7)	12.1(1.3)	13.2(1.1)	13.9(1.6)	N
Middle Two	0.3(0.1)	0.0(0.0)†	0.1(0.1)	0.2(0.1)	0.2(0.1)	0.2(0.1)	N
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 9

Average science scale scores across assessment years

Weighted percentages of observations with average science scale scores at or above 350

	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	0.1(0.0)	0.0(0.1)	0.1(0.1)	0.1(0.0)	0.1(0.1)	0.1(0.0)	N
GENDER							
Male	0.1(0.0)	0.1(0.2)	0.1(0.1)	0.1(0.1)	0.1(0.1)	0.1(0.1)	N
Female	0.1(0.0)	0.0(0.1)	0.1(0.1)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
RACE/ETHNICITY							
White	0.1(0.0)	0.1(0.1)	0.1(0.1)	0.1(0.1)	0.1(0.1)	0.1(0.1)	N
Black	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Hispanic	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Other	0.0(0.0)	0.0(0.0)	0.1(0.2)	0.1(0.3)	0.0(0.0)	0.0(0.0)	N
GRADE							
Below Modal Grade	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	N
At Modal Grade	0.1(0.0)	0.1(0.1)	0.2(0.1)	0.1(0.1)	0.1(0.1)	0.1(0.1)	N
Above Modal Grade	0.9(1.3)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	***(***)	N
REGION							
Northeast	0.1(0.1)	0.0(0.0)	0.2(0.3)	0.0(0.1)	0.1(0.2)	0.1(0.1)	N
Southeast	0.0(0.0)	0.0(0.0)	0.1(0.1)	0.1(0.1)	0.0(0.0)	0.1(0.1)	N
Central	0.1(0.1)	0.0(0.3)	0.1(0.1)	0.1(0.1)	0.2(0.2)	0.1(0.1)	N
West	0.0(0.1)	0.1(0.2)	0.1(0.1)	0.1(0.1)	0.0(0.0)	0.1(0.1)	N
PARENTS' EDUCATION LEVEL							
Less Than H.S.	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.1(0.2)	0.0(0.0)	N
Graduated H.S.	0.1(0.1)	0.0(0.0)	0.0(0.2)	0.0(0.0)	0.0(0.0)	0.1(0.1)	N
Some Educ. After H.S.	0.1(0.1)	0.0(0.0)	0.1(0.2)	0.1(0.1)	0.1(0.1)	0.1(0.1)	N
Graduated College	0.1(0.1)	0.1(0.2)	0.2(0.2)	0.1(0.1)	0.1(0.1)	0.1(0.1)	N
Unknown	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.1(0.1)	N
TYPE OF SCHOOL							
Public	0.0(0.0)	0.1(0.1)	0.1(0.1)	0.1(0.0)	0.1(0.0)	0.1(0.1)	N
Non-Public	0.2(0.2)	0.0(0.0)	0.2(0.1)	0.1(0.2)	0.1(0.2)	0.1(0.1)	N
QUARTILES							
Upper	0.2(0.1)	0.2(0.3)	0.4(0.3)	0.2(0.1)	0.3(0.2)	0.3(0.2)	N
Middle Two	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 13

Average science scale scores across assessment years

Weighted percentages of observations with average science scale scores at or above 150

	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	98.5(0.2)*	99.5(0.1)†	99.7(0.1)†	99.7(0.1)†	99.6(0.1)†	99.7(0.1)#	LQ
GENDER							
Male	98.8(0.2)*	99.7(0.1)†	99.8(0.1)†	99.7(0.1)†	99.6(0.2)†	99.7(0.1)#	LQ
Female	98.2(0.2)*	99.2(0.2)†	99.7(0.1)†	99.7(0.2)†	99.6(0.2)†	99.7(0.2)#	LQ
RACE/ETHNICITY							
White	99.6(0.1)*	99.9(0.0)†	99.9(0.1)	100.0(0.0)†	100.0(0.0)†	100.0(0.0)#	L
Black	93.1(1.0)*	97.5(0.7)†	99.0(0.4)†	98.8(0.6)†	97.8(0.6)†	98.8(0.6)#	LQ
Hispanic	94.3(1.3)*	98.0(0.8)	99.0(0.6)†	98.9(0.6)†	99.5(0.5)†	99.2(0.4)#	LQ
Other	98.0(1.1)	99.8(0.4)	100.0(0.0)	99.5(0.6)	99.7(0.5)	99.3(0.9)	N
GRADE							
Below Modal Grade	96.0(0.5)*	98.4(0.4)†	99.3(0.3)†	99.3(0.2)†	99.1(0.3)†	99.3(0.3)#	LQ
At Modal Grade	99.4(0.1)*	99.9(0.1)†	99.9(0.0)†	99.9(0.0)†	99.9(0.1)†	99.9(0.0)#	LQ
Above Modal Grade	100.0(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	*** (***)	N
REGION							
Northeast	99.3(0.2)*	99.5(0.2)	99.8(0.1)	99.7(0.3)	99.4(0.3)	100.0(0.1)#	N
Southeast	97.3(0.4)*	98.9(0.4)†	99.5(0.3)†	99.6(0.2)†	99.4(0.3)†	99.6(0.3)#	LQ
Central	99.1(0.2)	99.8(0.1)†	99.8(0.3)	99.9(0.2)†	99.8(0.1)†	99.7(0.2)#	L
West	98.1(0.3)*	99.5(0.2)†	99.8(0.1)†	99.6(0.2)†	99.7(0.3)†	99.5(0.3)#	LQ
PARENTS' EDUCATION LEVEL							
Less Than H.S.	96.4(0.6)*	97.9(0.9)	98.6(1.0)	99.5(0.4)†	98.5(1.1)	99.3(0.5)#	L
Graduated H.S.	99.0(0.2)	99.6(0.3)	99.8(0.1)†	99.7(0.2)	99.3(0.3)	99.6(0.2)	Q
Some Educ. After H.S.	99.6(0.2)	99.8(0.2)	99.9(0.1)	99.9(0.1)	100.0(0.1)	99.9(0.2)	N
Graduated College	99.7(0.1)	99.9(0.1)	99.9(0.1)	99.9(0.2)	99.9(0.1)	99.9(0.1)	N
Unknown	95.5(0.7)*	98.6(0.6)†	98.9(0.5)†	98.4(0.7)†	98.7(0.6)†	98.7(0.9)#	LQ
TYPE OF SCHOOL							
Public	98.4(0.2)*	99.4(0.1)†	99.7(0.1)†	99.7(0.1)†	99.5(0.1)†	99.7(0.1)#	LQ
Non-Public	99.8(0.3)	99.8(0.1)	100.0(0.0)	100.0(0.0)	99.9(0.1)	100.0(0.1)	N
QUARTILES							
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Lower	94.1(0.6)*	97.9(0.5)†	98.8(0.4)†	98.8(0.3)†	98.3(0.5)†	98.9(0.4)#	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 13

Average science scale scores across assessment years

Weighted percentages of observations with average science scale scores at or above 200

	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	86.0(0.7)*	89.8(0.8)†*	91.6(1.0)†	92.3(0.7)†	93.1(0.5)†	92.4(0.6)#	LQ
GENDER							
Male	87.2(0.8)*	91.9(0.8)†	92.9(1.0)†	92.7(0.8)†	93.1(0.8)†	92.2(0.8)#	LQ
Female	84.7(0.8)*	87.9(1.0)*	90.3(1.2)†	92.0(0.8)†	93.1(0.7)†	92.6(0.6)#	L
RACE/ETHNICITY							
White	92.2(0.5)*	94.4(0.6)†*	96.1(0.8)†	96.9(0.4)†	97.9(0.4)†	97.6(0.4)#	L
Black	57.3(2.4)*	68.6(2.4)†	73.6(3.0)†	77.6(3.6)†	73.8(2.8)†	73.5(3.2)#	LQ
Hispanic	62.2(2.4)*	75.5(3.3)†	76.7(3.2)†	80.2(2.9)†	86.2(2.6)†	81.2(2.5)#	L
Other	80.9(2.9)*	94.2(2.4)†	93.6(3.8)†	88.1(4.9)	94.5(1.9)†	92.6(1.9)#	LQ
GRADE							
Below Modal Grade	71.4(1.6)*	78.0(1.8)†*	83.1(1.9)†	84.9(1.5)†	87.1(1.2)†	86.4(1.0)#	L
At Modal Grade	91.3(0.6)*	94.4(0.6)†	95.7(0.7)†	96.5(0.5)†	96.7(0.6)†	95.9(0.7)#	LQ
Above Modal Grade	98.4(0.9)	100.0(0.0)	94.1(3.3)	96.3(6.1)	100.0(0.0)	***(***)	N
REGION							
Northeast	90.7(1.4)*	91.5(1.1)*	93.5(1.2)	92.6(1.8)	91.6(1.5)	95.4(1.0)#	L
Southeast	78.1(1.7)*	83.6(2.2)*	89.8(1.7)†	91.0(1.2)†	90.7(1.5)†	90.6(1.3)#	LQ
Central	89.9(1.1)	92.0(1.3)	91.9(3.5)	94.6(1.8)	95.4(0.8)†	94.0(2.0)	L
West	83.5(1.5)*	91.3(1.4)†	91.3(1.6)†	91.2(1.3)†	94.1(1.0)†	90.4(1.3)#	LQ
PARENTS' EDUCATION LEVEL							
Less Than H.S.	71.6(1.6)*	75.8(2.4)	79.8(3.5)	82.4(2.9)†	82.4(3.1)†	81.9(2.3)#	L
Graduated H.S.	87.0(0.8)	88.6(1.1)	90.7(1.4)	91.4(1.1)†	89.3(1.2)	90.6(1.2)#	L
Some Educ. After H.S.	93.4(0.9)	94.9(1.4)	95.9(0.7)	96.6(0.8)†	98.0(0.7)†	94.8(1.1)	L
Graduated College	95.0(0.5)	95.5(0.7)	95.8(0.7)	96.4(0.5)	97.1(0.5)†	96.5(0.4)#	L
Unknown	70.1(1.9)*	77.9(2.1)†	78.1(3.1)	75.4(2.9)	79.9(1.9)†	79.9(2.6)#	L
TYPE OF SCHOOL							
Public	84.9(0.8)*	89.2(0.9)†	91.3(1.0)†	91.6(0.8)†	92.7(0.5)†	91.9(0.6)#	LQ
Non-Public	95.7(1.0)	95.0(1.5)	97.3(1.8)	98.4(0.8)	96.4(1.1)	96.5(1.4)	N
QUARTILES							
Upper	99.9(0.1)	100.0(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	95.5(0.3)*	98.2(0.2)†*	99.4(0.2)†	99.6(0.2)†	99.8(0.1)†	99.8(0.1)#	LQ
Lower	53.0(1.3)*	63.0(2.0)†*	67.5(2.7)†	70.1(2.1)†	72.9(1.5)†	71.6(1.7)#	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 13

Average science scale scores across assessment years

Weighted percentages of observations with average science scale scores at or above 250

	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	48.8(1.1)*	50.9(1.6)*	52.5(1.6)*	56.5(1.0)†	61.3(1.1)†	59.5(1.1)#	L
GENDER							
Male	52.3(1.3)*	56.2(1.8)	57.3(2.1)	59.8(1.3)†	62.9(1.4)†	62.0(1.3)#	L
Female	45.4(1.2)*	46.0(1.6)*	47.7(1.7)*	53.3(1.4)†	59.6(1.4)†	57.1(1.4)#	LQ
RACE/ETHNICITY							
White	56.5(0.9)*	58.3(1.4)*	61.0(1.7)*	66.5(1.2)†	71.1(1.3)†	70.5(1.1)#	LQ
Black	14.9(1.7)	17.1(1.9)	19.6(2.8)	24.3(3.3)	26.2(2.8)†	22.4(4.3)	L
Hispanic	18.1(1.8)*	24.1(5.1)	24.9(4.3)	30.0(2.8)†	36.5(2.9)†	31.6(3.3)#	L
Other	35.6(4.9)*	64.8(7.1)†	52.6(6.6)	47.1(10.2)	62.0(3.9)†	58.9(4.7)#	L
GRADE							
Below Modal Grade	26.4(1.3)*	28.3(2.1)*	33.0(1.9)†*	39.4(1.8)†	46.3(1.7)†	45.3(1.8)#	LQ
At Modal Grade	56.8(1.1)*	59.7(1.7)*	61.9(1.6)*	66.3(1.2)†	70.1(1.2)†	67.6(1.1)#	L
Above Modal Grade	82.3(4.0)	90.3(5.5)	67.3(6.9)	52.3(11.5)*	93.0(6.5)	***(***)	Q
REGION							
Northeast	56.1(2.0)*	55.1(2.7)*	59.0(4.0)	58.1(2.7)	60.4(2.8)	66.3(2.0)#	L
Southeast	37.5(1.6)*	40.1(2.3)*	48.6(3.3)†	52.7(2.7)†	57.5(2.5)†	54.6(3.2)#	L
Central	54.8(2.0)	54.1(3.5)	49.5(6.3)	62.7(3.1)	66.2(2.2)†	64.1(3.7)#	L
West	44.5(2.4)*	53.0(3.3)	53.3(2.8)	53.2(2.2)†	60.4(2.2)†	54.6(2.1)#	L
PARENTS' EDUCATION LEVEL							
Less Than H.S.	26.0(1.2)	24.2(2.1)	28.6(3.5)	31.1(2.4)	34.2(3.3)	34.9(4.4)	L
Graduated H.S.	46.4(1.4)	43.1(2.0)	44.4(2.0)	47.4(1.7)	48.6(2.0)	48.3(1.8)	N
Some Educ. After H.S.	61.0(1.5)	60.3(2.3)	61.0(2.4)	65.3(1.9)	71.3(1.7)†*	62.7(2.1)	L
Graduated College	67.1(1.1)*	65.6(1.9)*	67.0(2.1)	70.2(1.4)	73.2(1.5)†	73.1(1.4)#	LQ
Unknown	25.7(2.1)	28.0(3.0)	23.9(2.6)	23.3(2.3)	31.0(2.6)	30.3(3.0)	N
TYPE OF SCHOOL							
Public	46.7(1.2)*	49.2(1.8)*	51.9(1.7)*	54.7(1.2)†	60.2(1.2)†	57.8(1.2)#	L
Non-Public	68.8(2.6)	65.8(4.1)	66.8(8.2)	72.0(2.6)	68.9(3.1)	72.7(3.2)	N
QUARTILES							
Upper	92.0(0.5)*	95.1(0.6)†*	97.8(0.5)†*	99.1(0.3)†	99.6(0.3)†	99.5(0.3)#	LQ
Middle Two	49.0(1.0)*	51.8(1.3)*	54.5(1.9)†*	61.6(1.1)†*	69.4(1.4)†	68.0(1.6)#	LQ
Lower	5.3(0.5)	5.2(0.8)	3.2(0.9)	3.9(0.8)	6.5(0.8)	6.4(1.1)	Q

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 13

Average science scale scores across assessment years

Weighted percentages of observations with average science scale scores at or above 300

	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	11.1(0.5)	9.6(0.7)	9.1(0.9)	11.2(0.6)	12.0(0.8)	11.8(0.9)	LQ
GENDER							
Male	13.1(0.6)	12.6(1.1)	11.9(1.3)	14.0(0.9)	14.2(1.1)	14.8(1.1)	N
Female	9.0(0.5)	6.9(0.7)	6.3(1.1)	8.5(0.6)	9.9(0.8)	8.8(1.0)	Q
RACE/ETHNICITY							
White	13.4(0.5)	11.5(0.8)	11.3(1.2)	14.2(0.8)	15.0(1.0)	14.8(1.0)	LQ
Black	1.2(0.4)	0.8(0.3)	1.1(0.4)	1.5(0.5)	1.8(0.8)	2.2(2.1)	N
Hispanic	1.8(0.8)	2.4(0.9)	1.5(0.7)	3.3(0.8)	3.3(1.3)	2.4(0.9)	N
Other	5.6(2.0)	15.9(3.5)†	7.4(2.8)	9.1(4.6)	14.0(2.7)	13.6(4.5)	N
GRADE							
Below Modal Grade	3.3(0.4)*	2.6(0.4)*	3.4(0.6)*	5.1(0.6)†	6.3(0.8)†	7.0(0.6)#	LQ
At Modal Grade	13.7(0.5)	12.3(0.9)	11.8(1.3)	14.7(0.9)	15.2(1.0)	14.4(1.1)	L
Above Modal Grade	34.5(5.0)	34.1(15.5)	21.5(10.6)	20.4(16.3)	69.9(19.5)	***(***)	N
REGION							
Northeast	13.8(1.0)	11.2(1.3)	12.4(2.2)	12.6(1.6)	11.7(1.4)	13.4(1.9)	N
Southeast	7.1(0.7)	5.1(0.6)*	6.5(1.1)	8.8(0.9)	11.0(2.1)	10.0(1.2)#	LQ
Central	13.2(1.0)	10.7(1.4)	7.4(1.6)†	13.3(1.4)	13.6(1.3)	13.9(1.9)	Q
West	9.4(0.8)	10.9(1.6)	10.2(1.7)	10.4(1.3)	11.7(1.1)	10.1(1.3)	N
PARENTS' EDUCATION LEVEL							
Less Than H.S.	2.9(0.4)	1.8(0.8)	1.9(1.1)	2.5(0.8)	1.7(0.8)	2.7(1.2)	N
Graduated H.S.	8.4(0.6)	4.9(0.7)†	4.5(1.0)†	6.3(1.0)	6.3(0.8)	5.6(1.0)#	Q
Some Educ. After H.S.	15.7(1.1)	12.4(1.6)	9.5(1.3)†	12.8(1.1)	13.0(1.4)	12.3(2.2)	Q
Graduated College	19.6(0.9)	15.7(1.3)†	15.7(2.0)	17.4(1.1)	17.7(1.3)	17.9(1.4)	Q
Unknown	3.1(0.4)	2.6(0.8)	2.2(0.9)	1.7(0.7)	3.3(0.9)	1.7(0.7)	N
TYPE OF SCHOOL							
Public	10.2(0.5)	8.9(0.8)	8.9(0.9)	10.7(0.7)	11.9(0.9)	11.3(0.9)	LQ
Non-Public	19.6(1.9)	16.0(2.4)	12.8(3.6)	16.2(1.5)	13.2(2.0)	15.5(2.6)	N
QUARTILES							
Upper	36.5(0.8)*	33.8(2.0)*	34.2(3.2)	41.6(1.5)†	43.9(2.8)	44.1(2.3)#	LQ
Middle Two	3.9(0.4)*	2.4(0.4)†	1.1(0.3)†	1.6(0.4)†	2.1(0.5)†	1.8(0.4)#	LQ
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 13

Average science scale scores across assessment years

Weighted percentages of observations with average science scale scores at or above 350

	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	0.7(0.1)*	0.4(0.1)	0.2(0.1)†	0.4(0.1)	0.2(0.1)†	0.2(0.1)#	L
GENDER							
Male	0.9(0.2)*	0.5(0.2)	0.3(0.2)	0.6(0.2)	0.3(0.1)†	0.3(0.2)#	L
Female	0.4(0.1)*	0.2(0.1)	0.1(0.1)	0.2(0.1)	0.2(0.2)	0.1(0.1)#	L
RACE/ETHNICITY							
White	0.8(0.1)*	0.4(0.1)	0.3(0.1)†	0.5(0.1)	0.3(0.1)†	0.3(0.1)#	L
Black	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.1(0.1)	0.0(0.0)	0.0(0.0)	N
Hispanic	0.0(0.1)	0.0(0.1)	0.0(0.0)	0.1(0.1)	0.0(0.0)	0.0(0.0)	N
Other	0.1(0.5)	0.8(1.0)	0.2(0.5)	0.7(1.7)	0.6(0.5)	0.1(0.3)	N
GRADE							
Below Modal Grade	0.1(0.2)	0.1(0.1)	0.0(0.1)	0.1(0.0)	0.0(0.1)	0.1(0.1)	N
At Modal Grade	0.8(0.1)*	0.5(0.2)	0.3(0.1)†	0.5(0.2)	0.3(0.1)†	0.2(0.1)#	L
Above Modal Grade	4.4(1.9)	3.8(7.7)	0.0(0.0)	5.4(8.4)	19.1(23.5)	***(***)	N
REGION							
Northeast	0.9(0.3)	0.5(0.2)	0.5(0.3)	0.4(0.2)	0.2(0.3)	0.2(0.3)#	L
Southeast	0.3(0.1)	0.1(0.1)	0.1(0.1)	0.4(0.2)	0.2(0.3)	0.2(0.2)	N
Central	1.0(0.3)	0.4(0.4)	0.1(0.2)	0.5(0.3)	0.3(0.2)	0.3(0.2)	N
West	0.4(0.1)	0.4(0.3)	0.2(0.2)	0.3(0.2)	0.2(0.1)	0.1(0.1)	N
PARENTS' EDUCATION LEVEL							
Less Than H.S.	0.1(0.1)	0.0(0.0)	0.0(0.0)	0.1(0.2)	0.0(0.1)	0.0(0.0)	N
Graduated H.S.	0.3(0.1)	0.1(0.1)	0.0(0.1)	0.1(0.1)	0.0(0.0)	0.0(0.0)#	L
Some Educ. After H.S.	1.0(0.2)	0.4(0.6)	0.1(0.1)†	0.3(0.2)	0.3(0.2)	0.3(0.4)	N
Graduated College	1.4(0.3)*	0.7(0.2)	0.5(0.2)	0.8(0.3)	0.4(0.2)†	0.3(0.1)#	L
Unknown	0.1(0.1)	0.0(0.1)	0.0(0.0)	0.0(0.1)	0.1(0.1)	0.0(0.0)	N
TYPE OF SCHOOL							
Public	0.6(0.1)*	0.3(0.1)	0.2(0.1)	0.4(0.1)	0.3(0.1)	0.2(0.1)#	L
Non-Public	1.6(0.3)*	0.8(0.5)	0.3(0.7)	0.5(0.5)	0.1(0.2)†	0.1(0.3)#	L
QUARTILES							
Upper	2.6(0.4)*	1.4(0.4)	0.9(0.4)†	1.6(0.4)	0.9(0.4)†	0.8(0.4)#	L
Middle Two	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 17

Average science scale scores across assessment years

Weighted percentages of observations with average science scale scores at or above 150

	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	99.8(0.0)	99.7(0.1)	99.9(0.1)	99.9(0.2)	100.0(0.0)†	99.8(0.1)	N
GENDER							
Male	99.9(0.0)	99.8(0.1)	99.9(0.1)	99.9(0.2)	99.9(0.1)	99.8(0.2)	N
Female	99.7(0.1)	99.6(0.1)	99.9(0.1)	99.9(0.2)	100.0(0.0)†	99.9(0.1)	L
RACE/ETHNICITY							
White	100.0(0.0)	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Black	98.5(0.3)	97.9(0.5)	99.7(0.4)	99.4(0.7)	99.8(0.3)†	99.6(0.5)	L
Hispanic	99.7(0.2)	98.9(0.9)	99.8(0.4)	99.6(0.9)	100.0(0.0)	99.3(0.5)	N
Other	99.9(0.1)	99.8(0.4)	99.2(1.0)	99.9(0.2)	99.9(0.3)	99.0(1.6)	N
GRADE							
Below Modal Grade	98.9(0.3)	98.6(0.4)	99.6(0.4)	99.4(0.7)	99.8(0.2)†	99.5(0.3)	L
At Modal Grade	100.0(0.0)	99.9(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	99.9(0.0)	N
Above Modal Grade	99.9(0.0)	99.8(0.2)	100.0(0.0)	100.0(0.0)	100.0(0.0)	99.7(0.5)	N
REGION							
Northeast	99.9(0.1)	99.6(0.2)	99.9(0.3)	99.8(0.4)	100.0(0.1)	99.7(0.2)	N
Southeast	99.5(0.2)	99.5(0.3)	99.9(0.1)	99.9(0.2)	99.9(0.2)	99.9(0.1)#	L
Central	99.9(0.0)	99.8(0.2)	100.0(0.0)	99.9(0.2)	100.0(0.0)	99.8(0.3)	N
West	99.9(0.0)	99.7(0.2)	99.8(0.2)	99.9(0.2)	100.0(0.0)†	99.8(0.2)	N
PARENTS' EDUCATION LEVEL							
Less Than H.S.	99.5(0.2)	99.1(0.4)	99.6(0.5)	99.5(0.7)	99.9(0.2)	99.4(0.6)	N
Graduated H.S.	99.9(0.0)	99.6(0.2)	99.9(0.1)	99.9(0.3)	99.9(0.1)	99.8(0.2)	N
Some Educ. After H.S.	100.0(0.0)	99.9(0.1)	100.0(0.1)	100.0(0.0)	100.0(0.0)	99.9(0.1)	N
Graduated College	100.0(0.0)	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.1)	100.0(0.0)	N
Unknown	98.4(0.6)	98.3(1.1)	98.7(1.2)	98.6(2.6)	99.9(0.4)	98.4(1.9)	N
TYPE OF SCHOOL							
Public	99.8(0.0)	99.6(0.1)	99.9(0.1)	99.8(0.2)	100.0(0.0)	99.8(0.1)	N
Non-Public	100.0(0.0)	99.9(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.1)	N
QUARTILES							
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Lower	99.2(0.2)	98.7(0.3)	99.6(0.3)	99.4(0.6)	99.8(0.2)†	99.3(0.4)	N

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† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 17

Average science scale scores across assessment years

Weighted percentages of observations with average science scale scores at or above 200

	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	97.1(0.2)	95.7(0.5)	97.1(0.5)	96.7(0.3)	97.8(0.5)	97.1(0.7)	N
GENDER							
Male	97.8(0.2)	96.8(0.5)	97.4(0.7)	96.8(0.5)	98.0(0.6)	97.1(0.6)	N
Female	96.4(0.3)	94.6(0.8)	96.9(0.5)	96.6(0.6)	97.5(0.7)	97.2(1.0)	L
RACE/ETHNICITY							
White	99.2(0.1)	98.6(0.2)	98.8(0.3)	99.0(0.2)	99.3(0.3)	99.3(0.3)	N
Black	83.6(1.3)*	79.7(1.9)*	90.9(2.1)†	88.3(1.9)	92.1(1.8)†	91.1(1.9)#	L
Hispanic	93.1(1.7)	86.9(2.9)	93.3(2.4)	91.9(2.2)	94.6(2.6)	89.9(3.3)	N
Other	97.1(1.8)	95.1(2.2)	89.3(4.8)	96.3(1.6)	95.1(2.6)	95.8(2.8)	N
GRADE							
Below Modal Grade	88.4(1.1)	85.6(1.6)	90.7(2.1)	89.9(1.6)	92.9(1.3)†	90.7(1.8)	L
At Modal Grade	98.5(0.1)	97.5(0.4)	98.5(0.3)	98.6(0.2)	99.3(0.3)†	98.8(0.5)	L
Above Modal Grade	99.0(0.3)	97.3(1.2)	98.0(1.9)	98.8(1.1)	98.7(0.7)	98.2(0.9)	N
REGION							
Northeast	98.0(0.4)	95.7(0.9)	97.1(1.5)	96.4(1.1)	98.3(0.6)	97.1(1.1)	N
Southeast	94.2(0.7)	93.9(1.5)	96.6(1.2)	95.8(0.6)	96.6(1.0)	97.0(1.1)#	L
Central	98.0(0.3)	97.4(0.7)	98.4(0.5)	97.8(0.7)	98.6(0.8)	97.9(0.9)	N
West	97.3(0.3)	95.0(0.9)	96.3(0.9)	96.7(0.6)	97.6(0.9)	96.3(1.6)	N
PARENTS' EDUCATION LEVEL							
Less Than H.S.	93.1(0.8)	90.1(1.6)	91.7(2.3)	91.7(2.2)	93.1(3.3)	89.7(3.1)	N
Graduated H.S.	97.3(0.3)	95.2(0.8)†	96.7(0.9)	94.9(1.0)	96.9(0.9)	96.2(1.2)	N
Some Educ. After H.S.	98.9(0.2)	98.0(0.4)	98.6(0.8)	98.7(0.5)	98.8(0.7)	98.4(0.7)	N
Graduated College	99.5(0.1)	98.2(0.3)†	99.2(0.3)	98.7(0.3)	98.9(0.5)	99.0(0.4)	N
Unknown	85.8(1.6)	85.4(3.2)	83.9(5.0)	84.8(5.0)	90.3(4.0)	84.3(4.8)	N
TYPE OF SCHOOL							
Public	97.0(0.2)	95.4(0.6)	97.0(0.5)	96.5(0.4)	97.5(0.5)	96.8(0.7)	N
Non-Public	99.5(0.2)	97.9(0.7)	99.8(0.6)	99.5(0.5)	100.0(0.1)	99.3(0.4)	N
QUARTILES							
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	99.9(0.1)	99.7(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)#	L
Lower	88.7(0.7)	83.2(1.6)†	88.5(1.7)	86.8(1.2)	91.1(1.7)	87.7(2.4)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 17

Average science scale scores across assessment years

Weighted percentages of observations with average science scale scores at or above 250

	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	81.6(0.7)	76.6(1.0)†*	80.7(1.3)	81.2(0.9)	83.3(1.2)	83.1(1.2)	LQ
GENDER							
Male	85.2(0.7)	81.2(1.2)†	82.4(1.4)	82.5(1.2)	85.0(1.4)	84.9(1.3)	Q
Female	78.0(1.0)	72.2(1.3)†*	79.1(1.7)	79.9(1.4)	81.6(1.4)	81.6(1.6)	LQ
RACE/ETHNICITY							
White	88.2(0.4)*	84.9(0.9)†*	87.8(1.4)	89.6(0.8)	90.5(1.0)	91.5(0.9)#	LQ
Black	40.5(1.5)*	35.0(2.1)*	52.2(3.2)†	51.4(3.7)†	55.7(3.7)†	58.1(3.7)#	L
Hispanic	61.5(1.7)	48.0(2.7)†	60.0(7.2)	59.9(5.0)	68.3(6.6)	58.6(7.4)	N
Other	78.7(2.9)	65.4(5.8)	71.0(7.0)	79.2(3.8)	78.4(4.4)	82.7(5.0)	Q
GRADE							
Below Modal Grade	53.6(1.4)	49.9(2.6)*	58.1(2.8)	59.5(2.5)	61.0(3.1)	60.2(2.9)#	L
At Modal Grade	86.0(0.6)*	81.3(1.0)†*	85.2(1.4)	87.2(0.8)	90.5(0.9)†	89.1(0.8)#	LQ
Above Modal Grade	88.2(1.0)	83.0(2.4)	86.8(2.6)	86.8(2.3)	88.7(2.9)	89.2(3.1)	N
REGION							
Northeast	85.4(1.6)	77.5(1.9)†	80.8(3.9)	82.1(2.8)	85.8(2.3)	85.5(2.9)	Q
Southeast	72.2(1.5)*	71.2(2.3)*	76.9(1.9)	76.8(2.2)	76.1(2.0)	80.2(2.4)#	L
Central	85.1(1.1)	81.1(2.3)	85.7(1.8)	86.9(2.0)	90.3(2.2)	85.4(2.9)	N
West	79.9(1.2)	74.8(2.5)	78.8(3.0)	79.0(1.9)	81.7(3.0)	81.7(3.0)	N
PARENTS' EDUCATION LEVEL							
Less Than H.S.	64.8(1.5)	58.2(2.6)	59.8(3.5)	62.0(4.3)	61.2(4.8)	57.0(5.3)	N
Graduated H.S.	80.0(1.0)	72.3(1.5)†	74.1(2.1)	73.4(1.5)†	76.6(2.5)	75.6(2.1)	Q
Some Educ. After H.S.	87.0(0.8)	83.1(1.4)	86.8(1.9)	88.1(1.6)	87.5(1.3)	86.6(1.6)	N
Graduated College	92.9(0.5)	86.7(1.4)†*	89.6(1.4)	88.9(1.1)†	90.2(1.3)	92.1(0.8)	Q
Unknown	52.7(2.6)	52.1(4.2)	47.4(7.9)	48.5(5.5)	54.1(7.5)	45.7(6.7)	N
TYPE OF SCHOOL							
Public	80.8(0.7)	75.8(1.0)†*	80.1(1.4)	80.4(0.9)	82.0(1.2)	81.7(1.3)	LQ
Non-Public	92.9(1.2)	83.5(2.8)†*	96.5(2.2)	90.6(4.1)	95.5(2.0)	93.1(2.3)	N
QUARTILES							
Upper	99.7(0.1)*	99.5(0.2)	100.0(0.0)†	100.0(0.0)†	100.0(0.0)†	100.0(0.0)#	L
Middle Two	91.9(0.4)*	88.1(0.7)†*	95.8(0.6)†	96.5(0.6)†	97.5(0.6)†	97.2(0.5)#	LQ
Lower	42.6(1.1)*	30.5(1.5)†	31.2(2.4)†	31.7(2.2)†	38.2(3.0)	35.1(2.3)#	Q

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 17

Average science scale scores across assessment years

Weighted percentages of observations with average science scale scores at or above 300

	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	41.7(0.9)*	37.3(0.9)†*	41.3(1.4)*	43.3(1.3)	46.6(1.5)‡	47.5(1.3)#	LQ
GENDER							
Male	48.8(1.1)	45.2(1.2)*	48.8(2.1)	48.2(1.6)	50.9(2.0)	52.9(1.8)	LQ
Female	34.8(1.0)*	29.9(1.2)†*	34.1(1.5)*	38.7(1.7)	42.0(1.7)‡	42.4(1.8)#	LQ
RACE/ETHNICITY							
White	47.5(0.7)*	43.9(1.1)†*	48.7(1.7)*	51.2(1.5)*	55.4(1.7)‡	57.5(1.6)#	LQ
Black	7.7(1.0)*	6.5(1.1)*	12.5(2.2)	15.7(4.0)	14.1(2.5)	15.4(2.3)#	L
Hispanic	18.5(2.1)	11.1(2.0)‡	14.8(2.9)	21.1(3.3)	23.0(3.8)	21.7(4.1)	L
Other	36.6(3.8)	25.2(4.8)	35.0(8.1)	45.2(6.5)	42.9(6.1)	44.4(8.0)	L
GRADE							
Below Modal Grade	14.5(0.9)*	16.0(1.8)	17.9(1.9)	19.6(1.5)‡	19.1(2.2)	22.0(2.3)#	L
At Modal Grade	45.7(0.8)*	40.7(1.1)†*	45.6(1.7)*	50.0(1.5)‡	55.2(1.7)‡	54.2(1.4)#	LQ
Above Modal Grade	50.5(1.8)	45.4(3.2)	50.6(5.9)	49.2(3.2)	54.9(3.4)	52.8(4.3)	N
REGION							
Northeast	47.9(1.8)	38.3(1.9)†*	46.6(4.0)	45.7(2.7)	52.0(2.5)	52.0(3.6)	LQ
Southeast	31.6(1.8)*	32.2(2.2)*	37.0(2.0)	37.5(2.7)	36.9(2.8)	40.9(2.5)#	L
Central	45.0(1.3)	42.1(2.2)*	45.0(2.5)	51.7(3.1)	56.4(2.6)‡	51.1(2.7)#	L
West	38.6(1.4)	35.0(2.2)*	36.3(3.5)	38.7(2.5)	42.2(3.4)	46.2(3.5)#	LQ
PARENTS' EDUCATION LEVEL							
Less Than H.S.	21.6(1.0)*	17.3(1.7)	14.9(2.4)‡	18.2(2.8)	16.8(2.5)	14.7(2.3)#	L
Graduated H.S.	35.8(0.8)	29.5(1.3)‡	29.5(2.0)‡	30.8(1.5)‡	32.1(2.7)	32.8(2.4)	Q
Some Educ. After H.S.	46.0(1.3)	41.6(2.1)	46.7(3.0)	46.7(1.9)	48.5(2.1)	47.2(2.2)	N
Graduated College	59.6(1.2)	52.5(1.9)†*	55.3(2.4)	57.3(2.0)	60.0(1.7)	62.6(1.9)	LQ
Unknown	16.6(2.3)	15.5(2.9)	11.4(4.4)	13.5(3.9)	18.3(5.9)	14.4(4.1)	N
TYPE OF SCHOOL							
Public	40.5(0.8)*	36.6(0.9)†*	39.9(1.5)*	42.0(1.3)	44.8(1.5)	45.3(1.1)#	LQ
Non-Public	58.9(2.8)	44.2(2.6)†*	74.6(10.9)	59.8(6.7)	63.1(5.3)	62.7(5.2)	N
QUARTILES							
Upper	86.6(0.9)*	82.8(1.3)*	96.7(1.0)†*	98.4(0.5)‡	99.4(0.3)‡	99.6(0.3)#	L
Middle Two	38.2(0.9)*	32.5(1.1)†*	34.1(1.2)†*	37.3(1.6)*	43.2(2.3)	44.6(1.3)#	LQ
Lower	3.8(0.4)*	1.7(0.3)†*	0.3(0.3)‡	0.4(0.4)‡	0.5(0.3)‡	0.4(0.3)#	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 17

Average science scale scores across assessment years

Weighted percentages of observations with average science scale scores at or above 350

	1977	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	8.5(0.4)	7.1(0.4)*	7.9(0.7)	9.2(0.5)	10.1(0.7)	10.0(0.8)	LQ
GENDER							
Male	11.8(0.6)	10.4(0.8)	11.4(1.3)	13.0(0.8)	13.6(1.0)	13.8(1.2)	L
Female	5.3(0.4)	3.9(0.4)†*	4.5(0.8)	5.5(0.5)	6.6(1.0)	6.4(0.6)	LQ
RACE/ETHNICITY							
White	10.0(0.4)*	8.6(0.6)*	9.6(0.9)*	11.4(0.7)	12.8(0.9)†	13.2(1.1)#	LQ
Black	0.4(0.2)	0.2(0.2)	0.9(0.6)	1.5(0.8)	0.8(1.1)	0.5(0.3)	N
Hispanic	1.8(0.6)	1.4(0.9)	1.1(0.7)	2.1(1.6)	2.5(1.2)	1.5(0.7)	N
Other	6.3(2.2)	2.8(1.9)	8.6(6.9)	11.6(4.1)	10.2(2.8)	7.3(2.8)	N
GRADE							
Below Modal Grade	1.3(0.3)	2.0(0.6)	2.0(0.9)	2.6(0.8)	2.4(0.7)	3.2(0.9)#	L
At Modal Grade	9.3(0.4)	7.8(0.6)*	8.7(0.9)	10.9(0.6)	12.3(0.8)†	11.7(1.0)#	LQ
Above Modal Grade	12.6(1.0)	9.6(1.0)	12.1(3.2)	12.1(3.0)	16.0(4.0)	13.4(3.4)	N
REGION							
Northeast	10.8(0.9)	7.6(0.9)	10.8(1.9)	10.2(1.1)	12.9(1.9)	13.2(2.2)	N
Southeast	5.2(0.7)	5.7(0.9)	6.0(1.2)	6.7(1.0)	6.2(0.7)	6.8(1.4)	N
Central	9.6(0.6)	7.9(1.2)	8.7(1.7)	12.5(1.2)	13.1(1.4)	11.0(1.5)	N
West	7.2(0.8)	6.7(0.8)	5.9(1.7)	7.4(1.1)	8.9(1.9)	9.4(2.2)	N
PARENTS' EDUCATION LEVEL							
Less Than H.S.	2.2(0.3)	1.9(0.6)	0.7(0.6)	1.3(0.7)	1.6(0.6)	0.9(0.9)	N
Graduated H.S.	5.7(0.3)	3.9(0.7)	3.7(0.8)	3.8(0.8)	4.8(1.2)	3.6(1.0)#	N
Some Educ. After H.S.	8.7(0.8)	7.4(1.2)	8.0(1.4)	8.8(0.9)	7.8(1.0)	7.2(0.9)	N
Graduated College	15.7(0.8)	12.4(0.8)†	13.2(1.4)	15.3(0.9)	16.3(1.2)	16.7(1.5)	Q
Unknown	1.7(0.6)	1.8(1.0)	1.0(2.3)	0.8(1.2)	2.4(2.3)	2.4(2.2)	N
TYPE OF SCHOOL							
Public	8.1(0.4)	6.9(0.4)*	7.2(0.7)	8.7(0.5)	9.6(0.8)	9.4(0.5)	LQ
Non-Public	14.8(1.9)	8.5(2.3)	23.1(7.7)	15.8(3.2)	14.1(2.7)	14.8(4.0)	N
QUARTILES							
Upper	29.2(1.1)*	24.5(1.4)†*	31.1(2.0)*	36.3(1.5)†	39.7(2.0)†	40.2(2.0)#	LQ
Middle Two	2.4(0.2)*	1.9(0.2)*	0.2(0.1)†	0.2(0.2)†	0.5(0.3)†	0.5(0.2)#	LQ
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 9

Weighted means, standard deviations, and percentiles of science distributions with jackknifed standard errors

	1977	1982	1986	1990	1992	1994
TOTAL SAMPLE						
Mean	219.9(1.2)	220.8(1.8)	224.3(1.2)	228.7(0.8)	230.6(1.0)	231.0(1.2)
St. Dev.	44.9(0.6)	40.9(1.4)	41.6(0.6)	40.2(0.4)	39.9(0.7)	40.9(0.5)
Percentiles						
5	143.8(2.3)	150.9(4.9)	155.0(1.3)	159.8(1.3)	162.8(2.0)	161.1(1.7)
10	160.9(2.1)	166.8(2.6)	169.9(1.8)	176.1(1.1)	177.8(1.8)	177.0(1.7)
25	190.1(1.6)	194.4(2.2)	195.9(1.3)	202.0(1.4)	203.8(1.6)	203.4(1.6)
50	221.5(1.1)	221.4(2.4)	225.1(1.7)	230.3(0.9)	232.1(0.9)	233.2(1.9)
75	251.0(1.1)	249.0(2.0)	253.1(1.7)	256.6(0.8)	258.4(1.0)	259.6(1.1)
90	276.5(1.2)	272.4(3.9)	276.9(2.0)	278.8(1.3)	280.6(1.6)	281.5(0.9)
95	291.4(1.2)	286.4(3.7)	290.9(1.9)	292.1(1.4)	293.6(1.4)	295.1(1.4)
MALE STUDENTS						
Mean	222.1(1.3)	221.0(2.3)	227.3(1.4)	230.3(1.1)	234.7(1.2)	232.2(1.3)
St. Dev.	45.0(0.7)	42.0(2.0)	41.9(0.7)	41.9(0.6)	40.7(1.0)	41.8(0.7)
Percentiles						
5	146.8(2.6)	150.4(5.5)	158.0(3.6)	159.6(2.2)	164.7(3.0)	161.1(3.9)
10	163.2(1.9)	166.5(3.8)	172.9(1.8)	176.3(2.3)	180.9(2.7)	176.9(2.1)
25	191.9(1.9)	193.5(4.1)	198.7(1.8)	202.1(2.5)	207.2(1.9)	203.7(1.5)
50	223.6(1.4)	221.3(3.6)	227.9(1.7)	231.6(1.9)	236.2(1.5)	234.1(1.6)
75	253.4(1.4)	250.4(3.1)	256.1(1.9)	259.4(1.0)	263.1(1.5)	261.8(1.1)
90	279.1(1.3)	274.7(4.3)	280.3(2.0)	283.3(1.8)	285.8(1.5)	284.4(1.7)
95	294.2(1.5)	287.1(5.3)	294.8(2.7)	296.3(2.4)	298.6(1.5)	298.3(2.3)
FEMALE STUDENTS						
Mean	217.6(1.2)	220.7(2.0)	221.3(1.4)	227.1(1.0)	226.7(1.0)	230.0(1.4)
St. Dev.	44.6(0.8)	39.8(1.3)	41.1(0.8)	38.4(0.5)	38.8(0.6)	39.9(0.7)
Percentiles						
5	141.3(3.5)	151.2(6.6)	152.5(2.5)	159.9(2.4)	161.0(3.4)	161.8(3.1)
10	158.5(2.2)	167.5(3.1)	166.9(2.6)	175.8(2.2)	175.3(2.2)	177.2(2.9)
25	188.3(1.4)	195.3(2.6)	193.2(1.8)	201.9(1.2)	200.9(1.5)	203.1(1.9)
50	219.5(1.2)	221.4(3.6)	222.5(2.0)	229.2(1.1)	228.5(1.4)	232.5(2.5)
75	248.6(1.1)	247.4(2.4)	250.2(1.9)	254.0(1.1)	253.7(1.5)	257.7(1.2)
90	273.8(1.6)	270.6(3.4)	273.3(1.6)	274.6(1.9)	275.0(1.7)	279.2(1.7)
95	288.2(1.6)	284.4(3.3)	287.0(2.6)	287.0(1.9)	287.7(1.2)	291.6(1.2)
WHITE STUDENTS						
Mean	229.6(0.9)	229.0(1.9)	231.9(1.2)	237.5(0.8)	239.1(1.0)	240.3(1.3)
St. Dev.	40.0(0.5)	37.6(1.3)	39.2(0.7)	36.3(0.4)	36.4(0.5)	37.1(0.6)
Percentiles						
5	163.2(1.3)	167.0(3.0)	166.5(2.3)	176.9(1.4)	178.0(2.0)	177.2(2.3)
10	177.6(1.1)	182.2(3.1)	181.0(1.5)	189.9(1.3)	191.7(1.5)	191.3(1.8)
25	202.4(1.1)	203.8(2.6)	205.5(1.5)	212.6(0.8)	214.5(1.3)	215.3(1.2)
50	229.8(0.9)	228.6(2.4)	232.5(1.6)	238.3(1.0)	240.0(1.1)	241.8(1.4)
75	256.9(0.8)	254.9(2.0)	258.8(1.4)	262.3(1.0)	264.2(1.3)	265.7(1.5)
90	281.1(1.1)	277.6(2.8)	281.7(1.7)	283.5(1.4)	285.1(1.6)	286.5(1.0)
95	295.4(1.9)	290.8(4.0)	294.9(2.5)	295.7(1.3)	297.5(0.8)	299.6(2.6)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 9

Weighted means, standard deviations, and percentiles of science distributions with jackknifed standard errors (continued)

	1977	1982	1986	1990	1992	1994
BLACK STUDENTS						
Mean	174.8(1.8)	187.0(3.0)	196.2(1.9)	196.4(2.0)	200.3(2.7)	201.4(1.7)
St. Dev.	41.4(1.0)	37.7(1.9)	38.3(1.0)	38.6(1.0)	37.3(0.7)	38.2(1.4)
Percentiles						
5	107.0(3.5)	123.6(11.0)	132.8(3.2)	131.3(4.2)	138.0(4.2)	138.4(2.7)
10	122.8(3.4)	136.7(8.3)	146.9(3.5)	145.3(3.8)	151.6(4.0)	152.5(3.2)
25	146.6(2.4)	159.2(4.9)	169.7(2.6)	169.8(2.6)	173.7(3.5)	175.2(2.8)
50	173.8(2.5)	188.2(5.0)	195.9(2.2)	196.3(2.5)	201.1(3.0)	201.5(2.3)
75	202.9(1.8)	214.4(3.8)	222.6(1.5)	224.1(1.7)	226.3(3.4)	227.5(3.3)
90	229.2(2.9)	236.4(4.7)	246.4(3.7)	246.8(2.4)	248.4(3.0)	252.2(2.4)
95	244.1(2.9)	246.5(3.3)	259.5(3.5)	260.0(5.4)	260.5(4.6)	263.2(1.6)
HISPANIC STUDENTS						
Mean	191.9(2.7)	189.0(4.2)	199.4(3.1)	206.2(2.2)	204.7(2.8)	201.0(2.7)
St. Dev.	41.2(1.4)	36.6(2.3)	38.9(1.6)	37.0(1.7)	37.3(1.4)	38.6(2.0)
Percentiles						
5	125.2(7.0)	127.3(9.6)	134.1(10.1)	146.2(5.5)	143.0(3.0)	138.7(9.1)
10	139.8(3.3)	141.9(16.8)	148.1(5.2)	158.6(4.3)	156.8(3.9)	152.0(4.1)
25	163.9(4.3)	161.9(7.4)	172.6(3.4)	180.6(3.7)	179.1(3.5)	175.5(3.4)
50	191.4(3.6)	190.8(4.8)	199.8(6.7)	206.2(3.7)	204.8(4.1)	199.7(2.2)
75	219.0(3.2)	215.9(3.4)	225.6(4.1)	232.7(4.1)	230.4(2.3)	227.3(4.8)
90	245.7(4.9)	236.2(5.6)	252.1(5.4)	252.9(4.4)	253.7(5.5)	251.2(6.5)
95	261.3(6.4)	246.0(7.6)	264.9(6.7)	266.8(6.9)	264.9(3.5)	264.4(4.3)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 13

Weighted means, standard deviations, and percentiles of science distributions with jackknifed standard errors

	1977	1982	1986	1990	1992	1994
TOTAL SAMPLE						
Mean	247.4(1.1)	250.1(1.3)	251.4(1.4)	255.2(0.9)	258.0(0.8)	256.8(1.0)
St. Dev.	43.5(0.4)	38.6(0.5)	36.6(0.6)	37.6(0.7)	36.9(0.5)	37.2(0.7)
Percentiles						
5	173.7(1.7)	185.2(2.2)	188.9(2.2)	191.4(2.0)	193.1(1.5)	191.0(1.7)
10	190.6(1.4)	199.6(1.8)	203.3(2.0)	205.9(1.7)	208.9(1.3)	206.7(1.4)
25	218.4(1.4)	224.1(1.1)	227.2(1.3)	230.0(1.5)	234.7(1.3)	232.7(1.3)
50	248.6(1.2)	250.9(1.3)	252.1(1.8)	256.4(1.2)	260.4(1.0)	259.2(0.9)
75	277.5(0.9)	276.7(1.5)	276.5(1.5)	281.1(0.9)	283.8(1.0)	283.0(1.1)
90	302.4(0.9)	299.2(1.6)	298.2(2.0)	302.4(1.1)	303.1(1.2)	303.1(1.7)
95	316.9(1.5)	312.8(1.3)	310.3(1.6)	315.1(1.9)	314.6(1.4)	314.3(1.9)
MALE STUDENTS						
Mean	251.1(1.3)	255.6(1.5)	256.1(1.6)	258.5(1.1)	260.1(1.2)	259.4(1.2)
St. Dev.	43.9(0.5)	38.7(0.6)	37.4(1.0)	38.8(0.8)	38.0(0.8)	39.0(0.8)
Percentiles						
5	176.7(1.9)	190.2(2.6)	192.3(4.2)	191.9(2.5)	193.4(2.7)	189.6(2.5)
10	193.5(1.6)	204.4(1.6)	207.2(2.5)	207.3(3.4)	209.4(2.4)	206.2(1.6)
25	221.5(1.7)	229.5(1.7)	231.1(1.6)	232.9(1.4)	235.8(1.1)	234.4(1.4)
50	252.4(1.5)	256.7(1.5)	256.9(2.0)	260.3(1.4)	262.7(1.5)	262.0(1.6)
75	281.6(1.2)	282.6(1.5)	282.4(1.4)	285.8(2.2)	287.0(1.8)	287.4(1.9)
90	306.5(1.3)	305.0(1.7)	303.4(1.6)	307.4(1.5)	306.4(1.8)	307.4(2.3)
95	321.2(1.5)	318.3(2.3)	316.2(2.2)	320.2(1.2)	318.1(1.6)	318.8(2.2)
FEMALE STUDENTS						
Mean	243.7(1.2)	245.0(1.3)	246.9(1.5)	251.8(1.1)	256.0(1.0)	254.3(1.2)
St. Dev.	42.8(0.5)	37.9(0.7)	35.3(0.6)	36.1(0.8)	35.7(0.8)	35.2(0.8)
Percentiles						
5	170.8(1.6)	180.2(1.9)	186.3(2.1)	190.6(2.1)	192.7(1.6)	192.4(1.8)
10	187.7(1.8)	195.5(2.3)	200.5(2.9)	204.8(1.5)	208.4(1.4)	207.2(2.0)
25	215.5(1.7)	219.7(1.4)	223.4(1.5)	227.8(1.6)	233.4(1.3)	231.3(1.9)
50	245.0(1.2)	246.1(1.7)	248.0(1.7)	253.1(1.2)	258.2(1.4)	256.3(1.3)
75	273.0(1.5)	271.0(1.9)	271.0(1.8)	276.8(1.6)	280.7(1.9)	278.9(1.5)
90	297.7(1.0)	292.8(1.5)	291.3(1.7)	296.8(1.1)	299.8(1.1)	297.7(2.1)
95	312.1(2.2)	305.3(1.8)	304.0(3.6)	308.6(1.4)	311.1(1.7)	308.4(2.1)
WHITE STUDENTS						
Mean	256.1(0.8)	257.3(1.1)	259.2(1.4)	264.1(0.9)	267.1(1.0)	266.5(1.0)
St. Dev.	39.5(0.3)	35.7(0.6)	33.6(0.8)	33.8(0.5)	31.8(0.6)	32.1(0.8)
Percentiles						
5	190.8(0.9)	198.0(1.7)	203.5(2.7)	208.6(1.6)	212.6(2.2)	211.9(1.6)
10	205.2(1.2)	210.8(1.7)	215.8(1.5)	220.4(1.2)	225.7(1.6)	225.3(1.2)
25	229.3(1.3)	233.2(1.2)	237.0(1.9)	241.3(0.9)	246.1(1.1)	245.3(1.1)
50	256.3(0.8)	257.6(1.3)	259.2(2.0)	264.5(1.1)	267.8(1.1)	267.3(1.3)
75	282.9(0.7)	281.5(1.1)	282.3(1.9)	287.0(1.7)	289.0(1.2)	288.6(1.5)
90	306.6(0.9)	302.7(1.6)	302.2(1.9)	307.1(1.4)	307.1(1.6)	307.1(1.8)
95	320.8(1.1)	316.2(1.7)	313.9(2.1)	319.4(1.3)	318.0(1.4)	317.6(2.7)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 13

Weighted means, standard deviations, and percentiles of science distributions with jackknifed standard errors (continued)

	1977	1982	1986	1990	1992	1994
BLACK STUDENTS						
Mean	208.1(2.4)	217.1(1.3)	221.6(2.5)	225.7(3.1)	224.4(2.7)	223.9(4.2)
St. Dev.	39.7(0.9)	34.6(1.2)	33.0(0.9)	34.3(1.7)	37.1(1.3)	35.7(2.6)
Percentiles						
5	144.3(3.2)	160.3(3.1)	167.8(1.7)	169.7(5.5)	162.1(3.7)	167.7(5.9)
10	157.7(2.4)	173.0(3.1)	180.1(2.2)	181.8(6.1)	177.0(3.8)	179.7(5.5)
25	180.5(2.2)	193.7(2.4)	198.3(3.0)	202.3(3.7)	198.9(3.6)	198.0(3.6)
50	207.4(2.5)	216.8(1.3)	221.2(2.8)	225.7(3.0)	223.8(2.4)	222.6(5.3)
75	234.8(2.6)	240.7(2.2)	243.5(3.6)	249.1(2.6)	251.4(3.6)	246.9(4.2)
90	259.5(3.4)	262.2(3.5)	264.4(4.9)	269.0(4.2)	272.0(2.7)	271.9(7.0)
95	274.6(2.7)	274.7(1.9)	276.8(2.5)	283.2(3.7)	286.0(7.6)	286.5(13.3)
HISPANIC STUDENTS						
Mean	213.4(1.9)	225.5(3.9)	226.1(3.1)	231.6(2.6)	237.5(2.6)	232.1(2.4)
St. Dev.	40.4(1.2)	36.2(1.1)	34.2(1.2)	36.6(1.0)	34.0(1.2)	34.9(1.1)
Percentiles						
5	147.1(3.5)	166.3(4.9)	171.1(5.6)	173.7(4.7)	180.3(3.7)	175.2(3.1)
10	161.4(3.0)	179.4(4.1)	181.3(4.5)	185.3(4.5)	193.0(6.4)	187.3(1.8)
25	185.8(3.5)	200.7(3.6)	201.6(5.5)	205.9(4.1)	215.2(3.8)	206.9(3.3)
50	213.3(2.5)	225.9(4.4)	225.6(3.8)	230.9(3.3)	237.9(4.5)	231.4(2.7)
75	240.3(3.5)	249.3(5.1)	249.8(3.4)	256.4(5.1)	260.9(3.4)	257.8(5.0)
90	265.8(2.0)	271.2(5.1)	269.9(3.5)	280.0(5.9)	281.8(2.5)	276.8(7.1)
95	282.1(4.4)	284.8(6.1)	283.0(3.8)	294.2(2.8)	292.1(4.2)	289.7(6.8)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 Science Trend Assessment — Age 17

Weighted means, standard deviations, and percentiles of science distributions with jackknifed standard errors

	1977	1982	1986	1990	1992	1994
TOTAL SAMPLE						
Mean	289.5(1.0)	283.3(1.2)	288.5(1.4)	290.4(1.1)	294.1(1.3)	294.0(1.6)
St. Dev.	45.0(0.4)	46.7(0.7)	44.4(1.0)	46.2(0.6)	44.7(0.8)	45.6(1.1)
Percentiles						
5	212.6(1.3)	203.2(2.2)	211.8(2.4)	209.9(2.3)	217.7(2.1)	212.3(4.3)
10	231.3(1.4)	221.5(1.9)	229.5(2.4)	228.8(2.0)	234.2(2.5)	232.4(4.3)
25	260.6(1.4)	252.5(2.1)	259.6(1.9)	260.3(1.9)	263.6(2.3)	264.6(2.0)
50	290.8(1.0)	285.4(1.0)	290.1(1.9)	292.2(1.3)	295.9(1.5)	297.3(1.2)
75	320.1(0.9)	315.3(1.6)	319.4(1.3)	322.7(1.4)	326.6(1.3)	326.3(1.1)
90	346.2(1.1)	341.5(1.1)	344.5(1.9)	348.3(1.2)	350.3(1.9)	350.0(1.5)
95	361.5(1.3)	357.3(1.4)	359.9(2.0)	362.9(1.5)	363.8(1.2)	363.4(1.8)
MALE STUDENTS						
Mean	297.0(1.2)	291.9(1.4)	294.9(1.9)	295.6(1.3)	299.1(1.7)	299.5(2.0)
St. Dev.	45.3(0.6)	47.1(0.9)	46.6(1.2)	48.7(0.9)	46.3(1.0)	47.3(1.2)
Percentiles						
5	219.5(2.1)	210.3(2.3)	213.9(2.8)	210.4(3.9)	219.0(3.9)	214.2(4.7)
10	238.2(1.6)	228.9(2.7)	231.4(5.0)	229.5(2.9)	235.5(4.2)	235.4(5.7)
25	267.6(1.5)	261.1(1.9)	263.5(3.0)	263.4(1.3)	267.4(3.0)	269.4(3.3)
50	298.5(1.2)	294.3(1.4)	298.7(2.8)	297.9(1.9)	301.3(2.2)	303.6(2.2)
75	328.1(1.4)	324.8(2.0)	327.6(1.6)	329.9(1.8)	333.6(1.4)	334.0(2.2)
90	353.9(1.4)	350.6(1.9)	353.4(2.8)	356.7(2.3)	357.2(1.0)	357.1(2.8)
95	368.8(1.6)	365.3(1.3)	367.0(4.6)	372.5(1.8)	370.4(1.5)	370.2(4.7)
FEMALE STUDENTS						
Mean	282.2(1.1)	275.2(1.3)	282.3(1.5)	285.4(1.6)	289.0(1.5)	288.9(1.7)
St. Dev.	43.5(0.5)	44.8(0.8)	41.3(1.1)	43.2(1.0)	42.3(1.2)	43.0(1.3)
Percentiles						
5	207.5(1.6)	198.3(3.6)	209.8(3.5)	209.2(3.7)	216.5(4.2)	211.5(4.2)
10	226.1(2.1)	215.5(2.6)	228.1(2.0)	228.2(4.5)	232.9(2.8)	230.9(3.0)
25	254.5(1.5)	245.7(2.1)	256.2(2.0)	257.7(2.4)	260.3(2.4)	261.1(4.2)
50	283.8(1.2)	277.6(2.0)	283.7(1.4)	287.7(2.0)	290.9(2.1)	292.5(1.4)
75	311.5(1.1)	306.2(1.2)	310.8(1.8)	316.2(2.3)	319.8(1.9)	318.6(1.9)
90	336.3(1.2)	330.1(1.0)	333.5(3.0)	339.6(2.3)	341.4(1.9)	341.3(2.6)
95	351.2(1.5)	345.2(1.5)	348.3(3.2)	351.5(1.6)	354.4(2.2)	355.0(2.6)
WHITE STUDENTS						
Mean	297.7(0.7)	293.1(1.0)	297.5(1.7)	300.9(1.1)	304.2(1.3)	306.0(1.5)
St. Dev.	40.5(0.3)	41.6(0.5)	40.6(1.0)	41.1(0.6)	40.6(0.9)	39.8(0.9)
Percentiles						
5	231.1(0.9)	223.0(1.7)	228.3(2.9)	232.8(2.3)	234.3(3.9)	237.7(4.4)
10	246.0(0.7)	239.1(1.5)	244.5(3.1)	249.0(2.0)	251.3(2.5)	253.9(3.1)
25	270.3(0.8)	265.5(1.5)	271.0(2.0)	273.4(1.5)	276.8(2.2)	280.5(1.7)
50	297.5(0.7)	293.6(1.0)	298.7(1.7)	301.2(1.2)	306.0(1.5)	307.6(1.6)
75	325.0(0.9)	321.2(1.6)	324.9(1.3)	329.0(1.6)	333.0(1.7)	333.8(1.4)
90	349.9(1.0)	346.0(1.3)	348.9(3.0)	352.3(1.3)	355.1(1.5)	356.1(2.0)
95	364.6(1.4)	360.8(1.3)	363.5(2.8)	367.3(2.0)	368.5(0.9)	368.8(4.8)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1992 Science Trend Assessment — Age 17

Weighted means, standard deviations, and percentiles of science distributions with jackknifed standard errors (continued)

	1977	1982	1986	1990	1992	1994
BLACK STUDENTS						
Mean	240.2(1.5)	234.7(1.7)	252.8(2.9)	253.0(4.5)	256.2(3.2)	256.8(3.1)
St. Dev.	41.6(0.9)	41.8(1.3)	40.4(2.2)	44.7(2.4)	39.4(1.4)	40.9(1.7)
Percentiles						
5	172.4(1.5)	166.0(3.1)	189.3(4.8)	182.0 (10.1)	191.8(4.0)	186.2(5.0)
10	187.3(1.9)	180.6(3.5)	201.6(4.9)	196.6(3.1)	206.6(4.1)	201.9(3.5)
25	212.1(1.4)	206.4(3.2)	225.0(4.2)	220.5(4.3)	230.1(1.7)	229.1(5.5)
50	240.4(1.8)	234.7(3.0)	251.9(5.9)	251.6(3.0)	255.4(3.2)	257.9(3.1)
75	267.9(2.0)	262.7(2.2)	279.5(3.4)	282.9(6.0)	282.4(5.9)	285.1(5.1)
90	293.4(2.6)	288.8(3.9)	306.0(4.2)	313.6 (11.3)	308.2 (10.3)	310.4(3.8)
95	309.6(2.6)	305.4(1.6)	322.8(5.8)	329.3 (10.2)	324.8(8.7)	322.1(4.5)
HISPANIC STUDENTS						
Mean	262.3(2.2)	248.7(2.3)	259.3(3.8)	261.5(4.4)	270.2(5.6)	261.4(6.7)
St. Dev.	41.8(1.5)	43.4(2.3)	39.3(1.7)	44.1(2.6)	41.6(2.0)	46.3(2.0)
Percentiles						
5	193.7(5.2)	178.0(6.1)	194.4(9.3)	188.7(6.2)	196.6 (10.5)	186.4(6.9)
10	208.4(4.0)	194.2(7.2)	209.2(3.8)	203.9 (11.1)	215.4 (14.6)	199.2(5.7)
25	234.3(3.9)	218.8(3.3)	232.0(5.6)	230.6(3.6)	241.6(8.6)	226.4(7.7)
50	262.4(2.4)	248.0(2.5)	258.9(5.8)	260.5(5.7)	272.7 (11.0)	262.9 (12.0)
75	289.5(5.1)	278.4(3.4)	285.8(3.6)	292.6 (10.6)	297.9(2.8)	295.9(5.7)
90	316.9(4.4)	302.1(3.4)	309.9(7.6)	317.4(5.1)	322.8(6.7)	321.1(5.8)
95	331.3(4.4)	320.8 (11.0)	324.4(6.3)	329.5(9.1)	339.1(6.0)	335.5(4.8)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 9

Weighted percentage correct by subgroups across assessment years

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Animals communicate	1994	84.3(1.3)	85.4(1.6)	83.2(1.5)	87.5(1.3)	74.3(2.3)	75.3(4.8)
	1992	82.3(1.3)	83.1(1.8)	81.5(1.4)	86.5(1.4)	68.4(2.4)	70.8(3.4)
	1990	83.4(1.1)	83.7(1.5)	83.2(1.5)	87.9(1.1)	67.4(3.4)	73.3(4.5)
	1986	77.8(1.7)	78.7(1.7)	76.9(2.1)	81.8(1.9)	61.4(3.1)	66.5(3.7)
	1977	73.5(1.4)	74.2(1.7)	72.8(1.8)	78.0(1.5)	49.3(2.8)	68.4(4.7)
Water evaporation: Put in sun	1994	44.8(1.5)	46.3(2.0)	43.3(2.1)	46.7(1.9)	40.7(2.2)	34.4(6.0)
	1992	46.4(1.3)	49.3(1.7)	43.8(1.7)	47.6(1.7)	42.2(2.3)	41.8(3.6)
	1990	45.6(1.2)	48.6(1.6)	42.7(1.9)	46.3(1.3)	40.3(3.5)	45.6(4.9)
	1986	42.4(1.4)	44.6(1.7)	40.4(2.2)	43.6(1.7)	37.0(3.0)	40.5(6.7)
	1977	53.7(1.5)	54.3(1.7)	53.1(2.1)	56.3(1.7)	40.7(2.5)	48.0(3.9)
Water evaporation: Cover jar	1994	43.6(1.4)	45.3(1.8)	42.0(1.6)	46.8(1.6)	34.0(2.5)	33.2(3.3)
	1992	41.5(1.2)	45.0(1.5)	38.3(1.7)	42.9(1.6)	36.2(2.0)	34.4(3.8)
	1990	43.3(1.2)	45.2(1.8)	41.4(2.1)	44.9(1.3)	38.6(2.6)	33.5(4.1)
	1986	40.7(1.4)	42.0(2.0)	39.4(1.7)	41.9(1.7)	36.6(3.3)	34.5(4.8)
	1977	49.9(1.4)	52.3(1.8)	47.6(1.5)	51.7(1.5)	41.1(2.5)	48.8(3.6)
Finding cause of a sore throat	1994	71.9(1.5)	68.8(1.8)	74.7(1.8)	73.2(1.9)	64.6(3.1)	68.3(3.1)
	1992	68.6(1.3)	64.8(1.7)	72.1(1.7)	70.1(1.5)	64.2(2.4)	63.6(6.4)
	1990	70.8(1.3)	66.1(2.0)	75.3(1.5)	73.4(1.4)	63.6(4.2)	66.4(3.6)
	1986	69.0(1.4)	64.3(1.9)	73.4(1.9)	71.9(1.4)	58.5(2.4)	59.6(6.6)
	1982	64.1(1.3)	61.2(1.6)	67.1(2.0)	66.2(1.6)	59.0(2.7)	50.0(3.1)
	1977	53.9(1.3)	52.6(2.1)	55.2(1.8)	55.1(1.5)	47.1(2.2)	53.6(3.2)
Predator-Prey: Deer/Mt. Lions	1994	69.4(1.8)	70.7(2.1)	68.1(2.2)	73.3(2.1)	59.5(2.5)	56.8(5.1)
	1992	67.3(1.4)	70.2(1.9)	64.7(1.7)	70.1(1.5)	56.6(3.1)	56.8(4.4)
	1990	69.4(1.1)	70.2(1.6)	68.8(1.6)	73.2(1.1)	54.6(2.8)	61.5(4.1)
	1986	62.3(1.4)	62.3(2.1)	62.4(2.3)	66.4(1.8)	47.9(2.8)	47.5(4.2)
	1977	65.4(1.6)	66.5(2.1)	64.3(2.1)	69.4(1.3)	42.5(5.2)	63.1(6.5)
See a doctor? Hurt arm	1994	88.2(1.0)	86.4(1.6)	89.8(1.0)	90.3(1.1)	81.8(2.3)	81.1(4.0)
	1992	88.1(1.0)	86.3(1.3)	89.7(1.1)	91.2(1.2)	78.1(2.1)	78.1(3.7)
	1990	88.1(1.0)	86.0(1.4)	90.0(1.3)	91.5(1.1)	75.7(3.1)	80.2(3.4)
	1986	86.7(1.1)	85.1(1.3)	88.2(1.3)	89.9(1.2)	75.9(2.8)	76.3(3.4)
	1977	90.9(0.8)	89.2(1.0)	92.7(1.0)	92.3(0.7)	86.5(2.2)	81.2(3.3)
See a doctor? Exercise	1994	81.5(1.6)	80.7(1.6)	82.3(2.2)	85.9(1.7)	68.9(2.4)	61.4(4.6)
	1992	80.8(1.2)	81.3(1.8)	80.4(1.3)	85.3(1.3)	65.1(2.7)	70.1(3.7)
	1990	82.7(1.2)	80.0(1.7)	85.3(1.3)	87.2(1.2)	65.2(3.1)	74.6(5.6)
	1986	79.6(1.2)	78.6(1.5)	80.6(1.4)	85.2(1.3)	55.5(2.6)	68.9(6.2)
	1977	76.0(1.1)	75.1(1.6)	76.9(1.4)	80.5(1.1)	57.3(3.2)	62.5(5.0)
See a doctor? Headache	1994	89.8(0.7)	87.7(1.3)	91.6(0.9)	91.0(0.8)	85.8(1.5)	85.4(2.5)
	1992	87.3(1.0)	85.1(1.3)	89.3(1.2)	88.4(1.2)	84.6(2.1)	83.9(4.0)
	1990	89.0(0.6)	87.1(1.1)	90.7(1.1)	89.7(0.7)	87.8(1.8)	85.2(3.6)
	1986	89.1(0.8)	88.0(1.2)	90.2(0.9)	89.9(0.8)	87.1(3.1)	85.0(1.5)
	1977	90.6(0.6)	90.4(1.0)	90.7(0.9)	91.3(0.6)	86.8(1.3)	87.4(2.8)
See a doctor? Stomachache	1994	79.0(1.5)	77.3(1.8)	80.6(1.8)	84.3(1.5)	63.5(2.6)	60.9(4.8)
	1992	77.7(1.4)	77.7(1.8)	77.6(1.5)	81.8(1.4)	63.6(3.6)	63.6(4.2)
	1990	77.3(1.0)	75.5(1.6)	79.0(1.4)	82.9(1.0)	58.2(2.9)	68.0(5.3)
	1986	75.6(1.3)	74.0(1.6)	77.2(1.8)	79.6(1.6)	59.6(3.1)	63.9(5.9)
	1977	69.2(1.5)	67.8(1.8)	70.6(1.9)	73.8(1.4)	46.8(4.0)	60.2(5.1)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
See a doctor? Pain in side	1994	79.4(0.9)	77.0(1.4)	81.9(1.0)	82.0(0.8)	74.4(2.8)	62.6(3.8)
	1992	77.4(1.0)	74.2(1.3)	80.2(1.4)	79.9(1.0)	69.2(2.8)	71.3(4.2)
	1990	80.1(1.1)	76.9(1.5)	83.2(1.4)	82.4(1.1)	72.4(4.0)	75.0(3.7)
	1986	77.5(1.3)	74.5(2.1)	80.4(1.3)	80.6(1.6)	66.7(2.8)	68.6(2.3)
	1977	80.4(1.1)	78.7(1.6)	82.0(1.4)	80.8(1.1)	78.1(2.8)	76.6(4.5)
Balloon shape and volume	1994	60.1(1.6)	60.9(1.6)	59.4(2.1)	63.1(1.8)	49.9(4.0)	54.8(4.8)
	1992	60.8(1.9)	61.8(2.5)	59.8(1.9)	65.3(2.0)	45.3(2.9)	48.9(5.2)
	1990	58.2(1.4)	58.8(1.9)	57.7(1.8)	62.3(1.5)	44.1(3.5)	40.8(5.1)
	1986	57.3(1.2)	59.4(1.9)	55.3(1.7)	60.2(1.5)	46.7(3.6)	46.3(5.9)
	1977	58.5(1.4)	58.7(2.0)	58.2(1.5)	63.7(1.3)	30.7(2.8)	49.4(4.7)
Determining the age of a tree	1994	65.4(2.2)	64.4(2.5)	66.4(2.3)	72.3(2.2)	46.1(3.9)	36.7(5.0)
	1992	60.0(1.6)	61.4(1.8)	58.7(1.8)	67.9(1.8)	31.1(3.4)	37.3(5.8)
	1990	64.0(1.9)	66.2(1.9)	62.0(2.5)	71.0(1.9)	42.2(4.8)	40.6(4.2)
	1986	55.7(1.8)	58.2(2.3)	53.3(2.0)	62.1(1.9)	34.8(3.3)	32.7(3.8)
	1977	61.6(1.9)	64.6(2.0)	58.6(2.1)	68.1(1.7)	34.1(3.0)	37.2(5.0)
Garden loses nutrients	1994	52.7(1.7)	51.9(2.3)	53.3(1.8)	60.2(1.6)	31.7(3.3)	31.1(4.2)
	1992	51.7(1.4)	52.0(1.8)	51.3(1.8)	58.4(1.7)	28.8(2.0)	30.1(3.6)
	1990	55.5(1.5)	54.7(1.9)	56.2(2.3)	63.4(1.7)	31.2(3.5)	33.1(4.3)
	1986	54.3(1.3)	56.2(1.9)	52.5(1.7)	61.3(1.4)	30.5(3.0)	27.9(3.7)
	1982	54.3(1.6)	55.1(2.2)	53.5(2.0)	59.6(1.6)	32.6(1.9)	34.0(3.3)
	1977	56.3(1.7)	57.4(1.9)	55.2(2.4)	62.9(1.5)	28.5(3.8)	31.4(3.9)
How to care for a bleeding cut	1994	53.4(1.5)	56.9(2.0)	50.1(1.9)	55.8(1.9)	46.1(3.6)	45.6(5.4)
	1992	51.5(1.3)	51.7(1.9)	51.3(1.5)	54.0(1.4)	43.9(3.0)	41.2(3.3)
	1990	48.2(1.4)	51.5(2.1)	45.1(1.8)	49.5(1.6)	40.9(3.5)	51.3(4.2)
	1986	39.9(1.4)	36.7(1.6)	42.9(1.8)	41.5(1.5)	35.3(3.3)	32.5(4.5)
	1982	46.2(1.8)	46.2(2.3)	46.1(2.0)	47.8(2.1)	38.7(2.3)	43.5(5.2)
	1977	34.9(1.8)	38.3(2.3)	31.3(2.0)	35.2(2.0)	31.0(4.3)	41.3(5.1)
Selecting a balanced diet	1994	53.9(1.7)	50.7(1.9)	57.3(2.3)	58.9(1.7)	36.0(3.1)	43.0(5.4)
	1992	53.3(1.7)	49.0(2.0)	57.3(2.0)	57.2(2.0)	40.9(4.1)	39.1(5.8)
	1990	55.0(1.5)	51.1(2.0)	58.6(2.0)	58.6(1.7)	42.8(3.3)	42.3(3.4)
	1986	51.3(1.4)	46.6(2.3)	55.8(1.9)	54.3(1.6)	38.9(3.2)	44.6(6.1)
	1982	51.5(1.5)	47.6(2.1)	55.5(1.9)	54.2(1.7)	38.5(3.4)	45.3(5.1)
	1977	46.2(1.5)	44.6(1.8)	47.9(2.2)	50.2(1.6)	28.4(2.9)	29.8(4.5)
Parental care by mammals	1994	53.1(1.1)	54.9(1.8)	51.4(1.7)	54.4(1.3)	48.6(3.3)	53.3(3.2)
	1992	51.4(1.6)	54.6(2.2)	48.4(1.9)	52.3(1.8)	47.1(3.2)	50.7(4.4)
	1990	48.3(1.5)	50.2(1.9)	46.5(1.9)	48.9(1.8)	43.3(3.0)	55.1(4.0)
	1986	43.1(1.4)	45.0(2.1)	41.2(1.7)	43.9(1.8)	38.2(3.7)	40.4(5.0)
	1977	42.9(1.4)	44.1(1.8)	41.6(2.0)	43.2(1.6)	44.0(2.8)	38.2(5.6)
Plants bend toward light	1994	31.3(1.5)	32.9(2.1)	30.0(1.8)	33.9(1.8)	23.0(3.3)	26.7(3.5)
	1992	28.3(0.9)	29.3(1.1)	27.3(1.3)	29.7(1.1)	23.2(2.1)	22.6(2.6)
	1990	27.5(1.3)	27.5(1.8)	27.6(1.7)	29.2(1.6)	20.3(2.7)	29.8(3.9)
	1986	25.6(1.5)	27.7(1.9)	23.7(1.9)	27.6(1.7)	17.2(2.4)	23.3(5.5)
	1977	29.8(1.3)	31.2(1.5)	28.4(1.7)	30.6(1.6)	27.9(3.1)	23.5(4.6)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Life cycle of a butterfly	1994	55.5(1.7)	56.4(2.1)	54.8(2.1)	59.7(1.8)	43.1(3.5)	42.5(3.2)
	1992	52.8(1.5)	54.2(2.1)	51.5(1.7)	56.8(1.6)	39.0(2.7)	34.5(4.3)
	1990	49.6(1.4)	51.4(2.1)	47.9(1.9)	53.3(1.5)	36.2(2.6)	43.5(4.4)
	1986	43.5(1.4)	46.8(1.9)	40.3(1.8)	46.3(1.6)	33.3(3.2)	39.4(5.6)
	1977	30.4(1.6)	33.2(1.9)	27.6(1.7)	32.3(1.8)	21.7(2.0)	25.2(4.2)
Position of fulcrum	1994	58.6(1.2)	62.6(1.6)	54.9(1.7)	59.9(1.3)	50.6(3.7)	65.6(3.9)
	1992	61.2(1.3)	67.4(1.6)	55.6(1.5)	63.4(1.4)	53.0(2.2)	57.2(3.6)
	1990	62.8(1.2)	67.3(1.6)	58.3(1.8)	63.5(1.3)	61.2(3.0)	61.2(4.7)
	1986	65.1(1.5)	68.9(1.7)	61.5(2.2)	65.6(1.7)	61.7(2.7)	68.3(3.8)
	1977	74.3(1.0)	78.6(1.2)	70.0(1.4)	74.9(1.1)	70.5(2.2)	74.7(3.8)
Use of a telescope	1994	81.1(1.0)	82.9(1.8)	79.3(1.1)	84.3(1.0)	71.3(4.0)	64.0(5.6)
	1992	81.5(1.2)	86.6(1.2)	76.9(1.7)	85.2(1.3)	68.6(2.8)	67.5(3.9)
	1990	83.1(1.5)	85.5(1.7)	80.6(1.8)	86.6(1.0)	72.1(4.8)	72.7(4.2)
	1986	82.2(1.4)	85.8(1.4)	78.7(1.8)	85.4(1.6)	71.5(2.1)	73.2(3.5)
	1977	70.5(1.6)	74.2(2.0)	66.8(1.9)	74.6(1.7)	46.7(3.2)	65.5(4.2)
Cycler's movement: Bike	1994	7.8(0.6)	9.6(1.1)	6.0(0.8)	8.7(0.8)	2.4(0.9)	7.2(1.7)
	1992	10.3(0.7)	11.1(1.1)	9.6(0.9)	11.3(0.9)	6.4(1.2)	10.6(2.8)
	1990	8.1(0.9)	8.9(1.1)	7.3(1.0)	8.0(1.1)	7.3(2.0)	7.3(1.5)
	1986	9.0(0.8)	10.6(1.1)	7.4(1.1)	9.4(1.1)	7.3(2.4)	9.7(2.3)
	1977	7.4(0.6)	7.2(0.7)	7.5(0.8)	6.9(0.6)	7.5(1.5)	10.7(2.4)
Cycler's movement: Tree	1994	62.4(1.2)	59.8(1.9)	65.1(1.6)	62.8(1.3)	63.7(3.4)	59.7(3.6)
	1992	61.7(1.3)	62.5(1.6)	61.0(1.6)	61.7(1.7)	61.0(2.3)	63.3(3.7)
	1990	61.9(1.3)	61.3(1.9)	62.6(1.9)	61.7(1.4)	60.8(3.4)	66.4(3.5)
	1986	62.2(1.3)	63.8(2.3)	60.5(1.8)	62.6(1.6)	60.5(3.0)	61.1(3.5)
	1977	64.7(1.2)	64.5(1.7)	65.0(1.5)	64.3(1.4)	61.4(2.9)	79.9(2.7)
Cycler's movement: House	1994	60.4(1.6)	59.2(2.4)	61.6(2.0)	61.5(1.8)	57.6(4.0)	53.7(4.3)
	1992	60.1(1.1)	60.7(1.9)	59.6(1.3)	62.0(1.3)	54.6(2.7)	51.1(7.7)
	1990	58.8(1.3)	58.9(2.1)	58.6(1.6)	60.5(1.7)	50.3(3.6)	62.0(3.5)
	1986	60.7(1.1)	61.9(1.7)	59.6(1.6)	62.4(1.2)	55.4(3.5)	55.6(4.1)
	1977	63.0(1.2)	63.3(1.7)	62.6(1.6)	64.0(1.3)	59.0(4.0)	53.8(3.9)
Circuit: Positive	1994	69.5(1.6)	70.9(1.8)	68.3(2.0)	71.7(1.7)	58.8(5.0)	63.7(3.7)
	1992	67.9(1.4)	73.9(1.2)	62.5(1.9)	71.2(1.5)	55.8(3.2)	57.0(5.3)
	1990	66.7(1.6)	73.2(1.8)	60.1(2.2)	68.8(1.7)	56.2(3.6)	66.2(3.8)
	1986	64.5(1.5)	72.8(1.9)	56.4(1.9)	65.8(1.6)	58.2(2.7)	58.8(1.9)
	1977	66.2(1.3)	71.8(2.2)	60.6(1.6)	69.8(1.2)	50.5(2.7)	58.3(7.3)
Circuit: Positive/negative	1994	77.3(1.3)	79.7(1.7)	75.1(1.7)	78.4(1.4)	74.2(4.1)	68.9(4.5)
	1992	76.7(1.0)	81.9(1.1)	72.0(1.4)	78.7(1.2)	67.9(2.5)	77.0(2.8)
	1990	76.3(1.4)	80.6(1.8)	71.9(1.9)	77.7(1.6)	67.5(3.3)	77.1(3.1)
	1986	76.3(1.2)	80.1(1.5)	72.7(2.0)	77.6(1.2)	72.0(2.1)	69.7(3.4)
	1977	75.5(1.3)	78.5(1.8)	72.6(1.6)	77.8(1.4)	61.5(3.1)	76.2(5.3)
Circuit: Positive/positive	1994	68.9(1.3)	71.4(1.8)	66.5(1.8)	70.4(1.4)	61.8(3.6)	61.7(3.9)
	1992	67.0(1.5)	72.6(1.5)	61.9(2.0)	68.8(1.7)	59.8(2.7)	57.7(2.6)
	1990	67.1(1.5)	72.4(1.8)	61.8(1.8)	68.1(1.8)	61.4(2.6)	69.1(4.5)
	1986	67.9(1.3)	72.4(1.9)	63.6(1.9)	69.3(1.6)	61.1(3.0)	63.7(4.1)
	1977	63.3(1.4)	66.5(2.1)	60.2(1.8)	64.2(1.6)	59.0(3.0)	59.1(6.4)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Circuit: Closed	1994	52.2(1.1)	60.1(1.5)	44.6(1.8)	53.9(1.3)	47.6(3.4)	45.6(4.9)
	1992	48.5(0.9)	55.9(1.5)	41.9(1.2)	50.0(1.1)	42.6(2.2)	42.9(3.4)
	1990	50.7(1.7)	56.8(2.0)	44.6(2.2)	52.5(1.9)	42.7(3.6)	47.5(2.9)
	1986	51.0(1.0)	59.6(1.3)	42.7(1.5)	51.2(1.4)	50.2(3.2)	51.6(4.2)
	1977	56.7(1.3)	64.5(1.9)	49.0(1.5)	58.1(1.3)	47.3(2.9)	54.6(5.4)
Balloon: Volume & temperature	1994	44.2(1.6)	46.8(2.0)	41.5(2.2)	46.9(1.9)	35.7(4.0)	33.5(3.7)
	1992	45.1(1.1)	47.6(1.8)	42.9(1.6)	48.0(1.4)	33.9(2.3)	40.3(3.3)
	1990	41.7(1.5)	44.8(2.2)	38.5(1.9)	44.1(1.7)	27.5(3.0)	42.9(4.4)
	1986	40.4(1.4)	47.6(1.9)	33.4(1.9)	41.9(1.7)	35.5(1.8)	34.2(4.9)
	1977	52.3(1.5)	55.0(2.0)	49.7(2.0)	55.4(1.7)	39.7(3.8)	44.3(4.5)
Electrical conductor: Rubber	1994	79.8(0.9)	81.6(1.1)	78.3(1.6)	81.6(0.8)	75.0(3.7)	73.5(2.9)
	1992	80.1(1.0)	82.0(1.2)	78.3(1.4)	83.3(1.0)	67.1(2.2)	75.7(3.3)
	1990	78.8(1.5)	79.8(1.9)	77.7(1.9)	81.3(1.6)	66.6(3.7)	72.2(5.5)
	1986	80.1(1.2)	81.5(1.3)	78.7(1.7)	83.3(1.4)	69.0(2.7)	70.0(3.0)
	1977	78.4(1.0)	79.7(1.1)	77.1(1.6)	81.8(1.0)	61.4(2.3)	68.8(4.2)
Electrical conductor: Copper	1994	83.6(1.0)	86.8(1.1)	80.5(1.4)	84.5(1.0)	80.2(4.3)	79.2(3.3)
	1992	83.6(0.8)	85.8(0.9)	81.6(1.1)	85.6(0.9)	76.2(1.8)	78.1(3.1)
	1990	81.8(1.1)	84.7(1.3)	78.9(1.5)	83.9(1.2)	71.8(4.0)	77.1(2.9)
	1986	83.7(1.1)	84.8(1.5)	82.6(1.3)	85.6(1.2)	78.7(2.8)	73.6(3.5)
	1977	80.7(1.0)	83.0(1.2)	78.3(1.5)	83.8(1.2)	66.3(2.9)	68.0(3.3)
Electrical conductor: Foil	1994	48.6(1.7)	49.0(2.3)	48.3(2.0)	50.7(1.9)	38.6(3.6)	46.1(5.3)
	1992	46.1(1.2)	48.0(1.7)	44.4(1.4)	47.9(1.3)	39.8(3.5)	38.0(4.3)
	1990	38.1(1.7)	38.7(2.1)	37.5(2.2)	38.3(2.0)	33.7(3.4)	45.5(3.2)
	1986	37.0(1.6)	37.9(1.9)	36.0(2.0)	38.1(2.0)	32.7(3.1)	31.1(5.2)
	1977	36.0(1.4)	38.7(1.7)	33.3(1.8)	35.9(1.7)	38.7(2.5)	31.5(4.9)
Electrical conductor: Penny	1994	34.6(2.0)	34.2(2.6)	35.2(2.4)	36.7(2.5)	27.3(3.0)	27.1(3.4)
	1992	32.4(1.0)	33.5(1.4)	31.3(1.3)	33.6(1.2)	26.6(2.7)	27.0(3.6)
	1990	31.4(1.4)	32.5(1.9)	30.3(1.9)	33.7(1.7)	22.7(2.9)	31.3(4.0)
	1986	28.9(1.0)	30.8(1.5)	27.0(1.3)	31.2(1.1)	19.7(1.8)	22.2(4.6)
	1977	35.8(1.3)	38.8(1.6)	32.8(1.8)	36.0(1.4)	35.2(4.6)	30.8(4.1)
Electrical conductor: Cork	1994	68.6(1.2)	74.0(1.5)	63.3(2.2)	74.7(1.4)	47.7(3.8)	54.2(4.1)
	1992	67.1(1.4)	72.4(1.4)	62.4(2.0)	72.7(1.4)	47.7(3.2)	53.7(4.1)
	1990	65.7(1.5)	72.2(1.7)	59.2(1.9)	72.1(1.5)	43.7(2.5)	48.2(4.6)
	1986	69.8(1.6)	75.4(2.0)	64.4(1.8)	74.2(1.7)	54.0(2.8)	56.6(4.3)
	1977	72.5(1.1)	77.5(1.6)	67.6(1.4)	77.8(1.1)	50.5(3.0)	56.5(4.9)
Sun is a star	1994	68.5(1.7)	71.4(1.8)	65.8(2.0)	74.0(1.6)	51.5(3.5)	47.0(4.7)
	1992	69.7(1.6)	75.7(1.6)	64.3(1.9)	74.5(1.5)	53.4(3.9)	54.1(4.2)
	1990	64.3(1.7)	66.6(1.9)	62.0(2.1)	69.2(1.8)	41.3(3.6)	56.8(4.0)
	1986	61.6(1.7)	66.9(2.0)	56.5(2.2)	65.1(1.7)	47.5(4.3)	55.8(4.3)
	1982	52.3(1.7)	57.3(1.8)	47.3(2.5)	56.9(2.2)	33.5(3.3)	36.6(5.5)
	1977	50.2(2.0)	53.2(2.4)	47.2(2.4)	53.8(2.2)	33.8(2.5)	34.3(7.7)
Objects that conduct heat	1994	62.2(1.1)	62.2(1.6)	62.7(1.6)	65.3(1.4)	52.0(4.0)	50.6(4.8)
	1992	62.2(1.3)	63.0(1.5)	61.5(1.8)	64.6(1.4)	54.4(3.2)	52.1(4.8)
	1990	55.8(1.9)	57.0(2.5)	54.5(2.0)	58.0(2.2)	45.3(2.9)	54.2(3.6)
	1986	59.2(1.4)	60.5(1.9)	58.1(1.8)	62.7(1.6)	48.4(3.3)	46.8(4.7)
	1977	46.7(1.5)	48.4(2.0)	44.9(2.2)	49.8(1.5)	35.2(2.9)	31.9(4.1)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Planting to avoid erosion	1994	35.9(1.5)	35.4(2.1)	36.0(1.8)	35.1(1.8)	40.7(4.1)	36.2(2.9)
	1992	37.5(1.6)	37.0(2.1)	37.9(1.9)	38.1(1.8)	32.1(2.8)	39.8(3.9)
	1990	36.4(1.9)	36.8(2.1)	36.0(2.8)	36.5(2.4)	31.5(3.5)	39.3(4.6)
	1986	36.6(1.7)	38.2(2.1)	35.0(2.1)	36.2(1.9)	35.4(2.9)	41.4(4.4)
	1982	38.0(1.2)	36.9(1.8)	39.3(1.9)	38.4(1.4)	37.4(2.9)	35.4(3.7)
	1977	40.0(1.4)	38.8(1.8)	41.1(1.9)	41.2(1.5)	35.3(2.3)	32.3(4.9)
Length of shadows at noon	1994	27.5(1.1)	32.2(1.8)	23.4(1.2)	29.2(1.4)	21.6(3.8)	19.5(3.4)
	1992	31.1(1.4)	38.5(1.8)	24.4(2.0)	33.0(1.3)	22.4(2.9)	28.3(6.8)
	1990	28.3(1.5)	32.2(2.0)	24.3(1.6)	30.6(1.7)	18.8(3.5)	27.5(2.8)
	1986	29.9(1.6)	35.8(2.5)	24.3(1.5)	32.0(1.8)	21.5(2.7)	28.7(5.6)
	1977	29.7(1.5)	34.1(1.9)	25.3(1.7)	31.5(1.7)	22.0(2.3)	19.8(2.5)
	Detect magnet through water	1994	47.0(1.3)	44.7(1.7)	49.3(1.9)	46.1(1.5)	54.1(4.7)
1992		44.9(1.2)	42.0(1.7)	47.6(1.6)	43.1(1.4)	52.7(2.5)	50.1(4.4)
1990		49.3(1.3)	46.4(2.0)	52.3(1.5)	48.1(1.7)	54.7(2.3)	52.1(3.6)
1986		49.1(1.5)	46.1(2.0)	51.9(2.1)	47.4(1.5)	56.1(3.8)	51.3(3.6)
1977		51.3(1.3)	53.8(1.5)	48.9(2.1)	48.7(1.5)	62.7(2.8)	61.1(5.6)
Detect magnet through paper		1994	76.0(1.3)	80.2(1.4)	72.4(2.0)	77.5(1.3)	71.9(2.4)
	1992	80.6(1.1)	85.2(1.4)	76.5(1.3)	82.5(1.2)	72.9(3.2)	77.9(4.1)
	1990	78.7(1.3)	84.2(1.6)	73.1(1.8)	79.0(1.4)	76.4(3.0)	83.2(3.9)
	1986	76.1(1.2)	82.8(1.6)	69.7(1.3)	76.9(1.4)	67.1(2.5)	88.3(3.3)
	1977	82.2(0.9)	88.1(1.0)	76.3(1.6)	83.3(1.0)	77.6(2.4)	76.7(4.4)
	Detect magnet through glass	1994	51.2(1.6)	51.8(1.7)	50.8(2.3)	51.7(1.7)	54.7(3.9)
1992		49.7(1.3)	52.0(2.1)	47.7(1.4)	47.1(1.4)	60.3(2.9)	53.8(3.5)
1990		52.1(1.5)	52.8(2.3)	51.3(1.5)	51.1(1.5)	54.3(4.8)	56.8(3.2)
1986		45.9(1.6)	44.7(2.1)	47.1(2.0)	44.1(2.1)	54.1(2.0)	50.7(4.5)
1977		38.4(1.0)	41.4(1.6)	35.4(1.4)	35.9(1.2)	52.7(1.9)	39.3(4.1)
Separating salt, sand & water		1994	34.4(1.1)	35.7(1.6)	33.1(1.7)	37.0(1.2)	23.2(4.5)
	1992	35.3(1.0)	37.8(1.5)	33.1(1.2)	38.0(1.0)	23.8(2.9)	31.5(4.5)
	1990	34.4(1.5)	33.7(1.6)	35.2(2.3)	36.7(1.6)	20.6(3.2)	32.3(4.6)
	1986	33.8(1.3)	36.6(2.1)	31.2(1.5)	36.4(1.6)	23.4(2.5)	26.1(3.3)
	1977	29.7(1.0)	31.5(1.5)	27.9(1.5)	32.4(1.2)	19.7(1.7)	17.3(3.1)
	Acceleration of a marble	1994	25.3(1.3)	34.2(1.6)	17.1(1.8)	28.7(1.3)	14.6(2.2)
1992		23.1(1.0)	32.6(1.6)	14.4(1.0)	24.5(1.1)	20.2(2.1)	11.4(2.0)
1990		23.8(1.2)	33.0(1.8)	14.4(1.6)	26.1(1.5)	15.6(2.1)	15.8(2.6)
1986		21.3(1.2)	29.5(1.5)	13.3(1.6)	22.0(1.3)	18.3(2.6)	19.9(4.9)
1977		25.6(1.1)	34.2(1.6)	17.0(1.3)	26.3(1.3)	23.1(2.5)	22.9(3.8)
Using a balance		1994	24.5(1.2)	22.7(1.5)	26.2(1.9)	24.3(1.4)	28.7(3.8)
	1992	23.0(1.0)	20.3(1.4)	25.4(1.2)	22.7(0.9)	22.6(2.5)	27.3(4.6)
	1990	20.7(1.1)	17.9(1.4)	23.6(1.7)	20.3(1.2)	21.0(2.9)	22.0(2.8)
	1986	20.7(0.9)	20.6(1.3)	20.9(1.2)	20.5(1.1)	21.6(2.5)	22.3(3.1)
	1977	17.4(1.0)	13.8(1.3)	21.1(1.4)	17.7(1.1)	17.5(2.4)	13.1(2.8)
	Reading a histogram	1994	99.0(0.2)	99.4(0.3)	98.6(0.4)	99.3(0.2)	98.9(0.7)
1992		98.0(0.3)	97.8(0.4)	98.2(0.3)	98.1(0.3)	97.5(0.8)	98.0(0.6)
1990		98.8(0.2)	98.9(0.4)	98.8(0.3)	98.9(0.2)	98.3(0.8)	99.0(0.6)
1986		97.6(0.4)	97.6(0.5)	97.6(0.6)	97.9(0.4)	97.8(0.9)	94.9(3.5)
1977		92.4(1.0)	92.8(0.9)	92.0(1.3)	93.7(1.0)	83.8(1.8)	93.2(2.0)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Using a grid to locate objects	1994	97.6(0.4)	97.7(0.4)	97.5(0.6)	98.4(0.3)	95.0(1.6)	96.6(1.4)
	1992	97.4(0.3)	97.1(0.5)	97.7(0.4)	97.8(0.3)	95.9(0.9)	95.8(1.4)
	1990	97.8(0.4)	97.5(0.6)	98.1(0.4)	98.2(0.4)	96.4(1.4)	95.6(1.5)
	1986	96.3(0.5)	96.2(0.6)	96.4(0.7)	97.0(0.5)	95.6(1.0)	91.2(3.4)
	1977	90.6(1.1)	91.1(1.2)	90.1(1.5)	94.0(0.6)	74.9(4.5)	80.4(4.3)
Water level in u-tube	1994	88.1(1.0)	89.8(1.1)	86.8(1.4)	91.4(0.9)	76.4(1.9)	82.2(2.3)
	1992	89.7(0.7)	91.3(0.8)	88.1(1.0)	91.1(0.8)	84.1(2.1)	86.0(1.9)
	1990	88.3(0.8)	87.9(1.3)	88.6(1.0)	91.7(0.7)	75.8(2.5)	81.0(2.9)
	1986	90.3(0.9)	92.0(0.9)	88.4(1.4)	91.8(1.0)	83.2(1.8)	87.3(3.5)
	1977	87.8(1.1)	90.1(1.2)	85.3(1.5)	90.8(0.9)	71.0(4.0)	85.8(2.7)
Water level in unequal u-tube	1994	73.9(1.0)	73.9(1.5)	74.0(1.6)	76.6(1.2)	62.7(2.4)	67.2(3.9)
	1992	75.3(0.9)	76.3(1.3)	74.3(1.4)	77.1(1.1)	66.9(2.5)	72.4(2.0)
	1990	73.9(1.1)	75.7(1.1)	72.0(1.7)	77.1(1.0)	62.6(3.9)	69.4(2.8)
	1986	74.9(1.4)	77.7(1.5)	71.8(1.6)	77.9(1.5)	59.5(2.8)	73.4(3.4)
	1977	72.6(1.5)	75.1(1.6)	69.9(2.1)	76.9(1.4)	49.5(3.1)	66.2(4.3)
Floating and sinking blocks	1994	76.3(1.5)	78.2(1.6)	74.6(1.9)	81.9(1.5)	59.1(3.9)	62.5(4.1)
	1992	78.5(1.1)	81.2(1.2)	75.8(1.6)	82.4(1.1)	64.5(2.3)	67.6(2.2)
	1990	77.6(1.2)	77.9(1.8)	77.3(1.4)	82.7(1.1)	60.5(3.8)	61.6(4.1)
	1986	76.8(1.2)	79.5(1.5)	73.8(1.7)	80.8(1.4)	61.0(2.7)	64.9(5.9)
	1977	68.8(1.6)	68.9(1.8)	68.8(2.2)	73.2(1.5)	47.6(4.4)	58.0(4.5)
Balancing a seesaw	1994	59.9(1.9)	59.1(2.3)	61.0(2.2)	63.4(2.0)	48.9(3.9)	50.6(3.7)
	1992	62.9(1.1)	64.2(1.4)	61.6(1.6)	66.5(1.3)	54.3(3.4)	45.3(7.0)
	1990	65.3(1.4)	66.0(1.8)	64.6(1.8)	68.7(1.7)	53.3(3.8)	50.6(4.1)
	1986	58.9(1.3)	59.3(1.7)	58.4(1.9)	61.1(1.3)	48.5(3.4)	59.0(6.2)
	1977	58.5(1.5)	60.7(1.7)	56.0(2.0)	60.5(1.5)	46.5(3.4)	56.0(4.7)
Dog experiment: Any dog learns	1994	62.8(1.1)	59.6(1.5)	66.1(1.5)	67.9(1.0)	47.0(3.1)	52.2(5.5)
	1992	67.3(1.1)	65.1(1.6)	69.5(1.6)	70.2(1.2)	58.9(3.4)	52.6(2.8)
	1990	66.1(1.5)	64.0(1.7)	68.2(1.9)	70.4(1.4)	51.6(4.4)	50.7(3.9)
	1986	61.0(1.4)	58.4(1.5)	63.9(2.3)	65.3(1.7)	45.9(3.2)	49.4(3.8)
	1977	62.9(1.5)	62.2(1.7)	63.5(2.0)	67.0(1.5)	43.3(3.5)	52.3(5.1)
Dog experiment: Some dogs learn	1994	89.8(1.0)	89.9(1.1)	89.9(1.3)	93.3(0.7)	77.6(3.6)	82.7(2.9)
	1992	90.4(0.7)	90.1(0.9)	90.7(1.1)	93.1(0.7)	82.4(3.4)	79.7(3.9)
	1990	90.4(0.9)	89.4(1.2)	91.3(1.1)	93.9(0.6)	79.4(2.8)	80.8(4.5)
	1986	89.0(1.0)	90.0(0.9)	87.9(1.5)	92.0(0.9)	82.2(2.5)	73.7(3.7)
	1977	89.7(1.0)	89.5(1.2)	89.9(1.1)	92.8(0.6)	79.2(2.5)	72.1(5.3)
Dog experiment: Teach any dog	1994	61.4(1.2)	63.9(1.5)	58.9(1.8)	63.8(1.5)	57.8(4.4)	51.9(5.3)
	1992	63.1(1.3)	66.0(1.5)	60.0(2.1)	65.3(1.5)	59.0(3.5)	52.7(6.6)
	1990	63.1(1.5)	64.4(1.8)	61.7(1.8)	65.8(1.4)	59.3(3.8)	48.8(4.6)
	1986	62.9(1.5)	65.5(1.8)	60.1(2.4)	65.2(1.5)	59.3(3.5)	49.2(3.9)
	1977	60.5(1.6)	63.8(2.1)	57.4(2.0)	62.1(1.5)	54.4(3.0)	51.1(4.8)
Relating speed of car/train	1994	48.1(1.8)	52.2(2.4)	44.2(2.1)	53.7(2.1)	30.4(2.1)	28.0(2.6)
	1992	50.0(1.0)	57.6(1.5)	42.2(1.7)	55.0(1.2)	31.0(3.0)	40.5(4.5)
	1990	48.4(1.5)	53.1(2.1)	43.8(2.2)	54.5(1.5)	26.7(2.0)	29.9(4.4)
	1986	49.4(1.3)	57.2(2.0)	40.9(1.5)	53.5(1.5)	32.3(2.5)	38.7(4.0)
	1977	50.7(1.9)	55.1(2.4)	46.1(1.9)	54.5(1.9)	29.8(2.9)	41.1(6.5)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Classifying objects: Shape	1994	77.6(0.8)	75.6(1.3)	79.8(1.1)	82.8(1.0)	64.1(3.4)	57.4(3.4)
	1992	76.8(1.1)	74.9(1.1)	78.7(1.5)	80.1(1.2)	64.8(2.4)	66.0(3.2)
	1990	74.5(1.2)	71.7(1.6)	77.3(1.5)	78.2(1.4)	61.8(2.7)	64.8(3.1)
	1986	71.8(1.3)	69.8(1.6)	74.0(1.5)	75.5(1.5)	60.0(3.1)	57.1(2.6)
	1982	74.5(1.4)	71.8(2.0)	77.4(1.8)	76.7(1.6)	65.0(3.5)	65.9(4.6)
	1977	70.2(1.2)	70.1(1.6)	70.4(1.4)	73.6(1.4)	56.8(2.4)	55.3(3.7)
Classifying objects: Color	1994	82.2(1.0)	79.4(1.3)	85.1(1.3)	87.0(1.1)	69.4(3.0)	69.5(4.9)
	1992	83.3(0.7)	81.5(1.0)	85.1(1.1)	85.9(0.8)	76.3(2.4)	70.9(2.8)
	1990	81.1(1.1)	79.9(1.3)	82.2(1.4)	83.0(1.4)	74.6(2.8)	73.4(3.9)
	1986	77.6(1.4)	76.6(1.5)	78.7(1.7)	80.2(1.3)	71.1(3.2)	62.7(7.8)
	1982	74.8(1.5)	71.7(2.1)	78.0(1.5)	77.5(1.6)	64.8(2.3)	62.9(4.5)
	1977	71.6(1.3)	71.7(1.5)	71.5(1.7)	74.6(1.2)	60.3(3.1)	57.6(5.7)
Classifying objects: Size	1994	76.7(1.1)	74.7(1.6)	78.7(1.4)	82.1(1.1)	63.5(3.7)	58.9(3.5)
	1992	75.6(0.9)	73.5(1.2)	77.7(1.2)	78.5(1.0)	63.9(2.7)	70.2(3.9)
	1990	75.6(1.2)	73.1(1.8)	78.2(1.5)	79.4(1.4)	63.7(2.8)	61.2(4.2)
	1986	71.1(1.2)	70.3(1.5)	71.9(1.7)	74.9(1.3)	59.4(3.5)	53.7(3.6)
	1982	69.0(1.5)	66.4(1.9)	71.6(2.6)	71.9(1.7)	55.9(2.1)	59.1(4.1)
	1977	66.8(1.3)	66.9(1.7)	66.8(1.7)	70.6(1.4)	53.7(2.5)	47.7(4.4)
Magnetism: Copper	1994	48.5(1.2)	54.2(1.8)	42.6(1.7)	50.2(1.5)	41.1(3.7)	42.0(3.7)
	1992	51.0(1.4)	57.5(1.5)	44.4(2.0)	54.3(1.6)	38.1(3.8)	40.0(2.7)
	1990	51.0(1.3)	60.8(1.9)	41.5(2.0)	52.6(1.6)	46.1(3.8)	38.6(5.0)
	1986	54.8(1.5)	60.6(1.9)	48.4(2.1)	57.0(1.8)	44.2(3.8)	52.2(3.7)
	1977	46.5(1.6)	55.4(2.0)	37.7(2.0)	48.6(1.9)	37.2(2.8)	40.2(4.7)
Magnetism: Compass	1994	35.3(1.6)	41.1(2.5)	29.4(1.8)	36.4(2.0)	30.8(3.0)	28.6(3.0)
	1992	34.1(1.4)	39.9(2.0)	28.1(1.8)	34.0(1.6)	33.4(3.1)	33.1(5.5)
	1990	33.6(1.1)	40.8(1.8)	26.5(1.5)	33.9(1.2)	30.7(2.9)	29.4(2.5)
	1986	35.1(1.6)	40.6(2.2)	29.1(2.0)	35.8(2.0)	30.8(3.1)	36.0(3.4)
	1977	38.8(1.4)	49.1(1.9)	28.7(1.6)	40.0(1.5)	36.1(3.8)	29.6(4.3)
Magnetism: Iron	1994	75.4(1.5)	77.9(2.0)	72.8(2.0)	79.0(1.5)	66.3(2.7)	57.2(3.6)
	1992	78.8(1.0)	81.3(1.1)	76.2(1.3)	81.1(1.2)	73.4(2.3)	68.4(5.7)
	1990	78.0(1.5)	80.0(1.5)	76.0(1.8)	80.6(1.2)	70.1(5.0)	60.5(4.1)
	1986	78.4(0.9)	80.7(1.3)	75.8(1.1)	79.8(1.0)	78.1(2.2)	63.7(3.9)
	1977	73.6(1.1)	77.1(1.6)	70.1(1.5)	74.2(1.2)	71.3(3.0)	70.2(4.2)
Magnetism: Foil	1994	66.8(1.3)	68.3(2.0)	65.2(2.0)	70.0(1.6)	57.5(4.5)	55.5(3.6)
	1992	67.1(1.3)	70.8(1.4)	63.4(1.7)	70.9(1.3)	57.5(2.3)	50.8(5.4)
	1990	69.7(1.2)	71.1(1.6)	68.3(1.9)	73.5(1.2)	55.7(3.1)	57.4(3.7)
	1986	71.6(1.2)	73.2(1.6)	69.8(1.6)	74.1(1.4)	63.7(2.6)	60.7(7.0)
	1977	67.1(1.3)	68.7(1.7)	65.6(1.7)	70.5(1.3)	54.1(2.7)	58.6(3.6)
Interpret table of books read	1994	66.2(1.6)	66.3(2.2)	66.2(1.9)	72.2(1.6)	48.5(2.4)	41.9(6.3)
	1992	64.1(1.4)	63.7(1.5)	64.5(1.8)	68.9(1.5)	46.9(3.0)	46.4(3.7)
	1990	63.6(1.4)	62.3(1.9)	64.8(2.0)	68.8(1.3)	47.7(3.2)	41.4(3.6)
	1986	61.3(1.5)	59.2(1.9)	63.6(2.1)	66.5(1.7)	44.1(3.2)	42.3(5.1)
	1982	57.1(1.6)	54.2(1.8)	60.0(2.1)	62.3(2.0)	36.3(2.2)	27.5(4.5)
	1977	60.2(1.9)	58.9(2.1)	61.5(2.3)	65.9(1.7)	35.3(4.0)	33.9(3.8)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Survey height of boys/girls	1994	52.6(1.4)	53.5(1.9)	51.6(1.6)	54.1(1.7)	49.2(2.9)	44.4(4.8)
	1992	50.9(1.3)	54.9(1.7)	46.8(1.7)	51.4(1.6)	52.0(2.7)	45.5(3.5)
	1990	52.0(1.6)	54.5(1.9)	49.5(2.1)	52.8(1.4)	49.9(4.8)	47.2(4.1)
	1986	51.3(1.3)	52.8(1.8)	49.7(2.6)	52.7(1.5)	48.6(4.2)	42.0(6.1)
	1982	51.7(1.6)	54.8(2.0)	48.6(2.6)	53.0(1.9)	48.5(4.2)	44.2(3.0)
	1977	47.0(1.5)	48.8(1.8)	45.2(1.9)	48.6(1.7)	38.1(2.3)	44.7(2.7)
Add heat to dissolve sugar	1994	37.9(1.4)	41.8(1.9)	34.1(1.7)	42.2(1.4)	23.0(2.8)	22.3(3.4)
	1992	36.3(1.1)	37.3(1.5)	35.4(1.7)	40.4(1.2)	21.0(2.0)	23.8(3.7)
	1990	39.7(1.3)	38.9(1.5)	40.6(2.1)	43.5(1.5)	26.9(2.9)	25.7(2.9)
	1986	42.7(1.3)	42.3(1.8)	43.1(1.9)	46.1(1.8)	28.7(3.2)	33.5(5.1)
	1977	38.4(1.5)	38.4(2.0)	38.4(1.6)	42.1(1.6)	20.8(3.0)	27.3(2.7)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 13

Weighted percentage correct by subgroups across assessment years

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Finding cause of a sore throat	1994	81.8(1.2)	78.8(1.8)	84.6(1.1)	84.8(1.0)	70.5(4.5)	79.2(3.1)
	1992	80.0(1.2)	75.2(1.5)	85.2(1.4)	83.0(1.1)	72.0(3.2)	70.0(6.0)
	1990	80.8(1.1)	76.5(1.5)	84.9(1.6)	83.6(1.3)	71.8(3.7)	69.8(3.0)
	1986	78.6(1.7)	73.6(2.2)	83.6(1.5)	80.3(2.2)	71.7(2.6)	71.6(3.8)
	1982	74.7(2.0)	71.9(2.6)	77.3(2.1)	76.0(2.1)	70.2(4.0)	65.6(4.4)
	1977	75.0(1.3)	73.0(1.8)	77.1(1.5)	76.1(1.4)	73.2(2.2)	65.2(5.1)
Plants bend toward light	1994	61.7(1.7)	66.0(2.0)	57.7(1.8)	68.2(1.9)	40.2(3.3)	48.8(3.5)
	1992	62.5(1.8)	65.4(2.3)	59.5(2.1)	67.3(1.9)	45.4(4.2)	52.8(4.8)
	1990	61.0(1.4)	62.5(1.4)	59.5(2.0)	66.6(1.5)	41.0(4.0)	47.2(3.7)
	1986	54.5(2.9)	55.5(2.0)	53.6(4.3)	58.7(3.3)	38.7(3.5)	42.9(4.9)
	1982	55.4(1.7)	56.8(1.9)	54.1(2.3)	60.0(1.9)	36.1(3.5)	38.0(5.2)
	1977	53.3(1.8)	54.8(2.1)	51.7(2.3)	58.1(2.0)	29.3(2.6)	39.7(4.6)
Dog related to wolf	1994	93.6(0.8)	94.9(1.0)	92.4(1.0)	96.6(0.6)	85.1(3.3)	86.5(2.1)
	1992	95.0(0.6)	96.5(0.5)	93.3(0.9)	97.5(0.4)	85.5(2.3)	91.2(2.9)
	1990	94.4(0.6)	96.2(0.6)	92.7(1.0)	96.1(0.6)	88.1(1.9)	91.8(2.4)
	1986	95.7(0.6)	96.6(0.6)	94.8(0.9)	97.3(0.7)	89.8(1.4)	91.7(1.9)
	1982	94.0(0.7)	94.8(0.7)	93.1(0.9)	95.7(0.6)	85.9(2.4)	88.7(2.0)
	1977	94.0(0.7)	94.8(0.7)	93.1(0.9)	95.7(0.6)	85.9(2.4)	88.7(2.0)
Observing a sealed aquarium	1994	62.8(1.2)	62.4(1.6)	63.2(1.7)	66.5(1.6)	50.0(3.0)	54.3(4.3)
	1992	63.6(1.2)	66.2(1.6)	60.9(1.9)	65.2(1.4)	56.9(3.3)	57.0(2.8)
	1990	64.9(1.3)	67.5(1.6)	62.3(1.5)	67.9(1.4)	55.7(3.2)	50.8(3.5)
	1986	62.8(1.7)	64.9(2.1)	60.7(2.1)	63.1(2.0)	60.9(3.9)	62.0(2.6)
	1982	70.4(1.1)	72.7(1.3)	68.3(1.7)	71.2(1.2)	67.2(2.3)	66.5(5.6)
	1977	73.7(1.0)	72.7(1.7)	74.5(1.4)	75.2(1.1)	65.0(2.8)	69.2(3.0)
Museum: Habitats	1994	86.7(1.0)	84.3(1.6)	89.0(1.2)	90.4(1.0)	73.2(4.2)	79.6(3.2)
	1992	87.9(1.0)	85.4(1.5)	90.7(1.2)	90.4(0.9)	78.7(2.6)	84.9(3.6)
	1990	85.4(1.0)	83.1(1.6)	87.7(1.0)	86.2(1.2)	85.3(2.4)	80.3(3.2)
	1986	82.2(0.9)	81.8(1.3)	82.6(1.5)	83.7(1.1)	76.9(2.1)	73.7(5.0)
	1982	80.8(1.2)	77.0(1.5)	84.6(1.5)	84.0(0.9)	67.4(3.3)	62.2(5.8)
	1977	80.8(1.2)	77.0(1.5)	84.6(1.5)	84.0(0.9)	67.4(3.3)	62.2(5.8)
Museum: Similar animals	1994	61.1(1.4)	62.6(2.2)	59.5(1.6)	64.6(1.5)	47.6(4.0)	56.7(4.0)
	1992	62.4(1.5)	60.4(2.2)	64.4(1.6)	64.7(1.7)	46.5(3.4)	74.0(3.2)
	1990	64.3(1.5)	62.3(1.9)	66.3(1.8)	67.4(1.6)	54.7(3.1)	53.7(4.1)
	1986	59.1(1.7)	60.2(2.3)	58.1(2.7)	62.4(2.1)	45.6(2.6)	52.0(3.1)
	1982	58.8(1.9)	57.7(2.3)	59.8(2.1)	61.6(1.9)	45.0(2.6)	46.5(7.1)
	1977	58.8(1.9)	57.7(2.3)	59.8(2.1)	61.6(1.9)	45.0(2.6)	46.5(7.1)
See atom w/unaided eye?	1994	90.4(1.1)	91.1(1.4)	89.6(1.4)	94.8(0.6)	74.3(5.8)	84.2(3.2)
	1992	92.4(0.7)	93.1(0.9)	91.7(0.8)	94.9(0.6)	82.8(2.3)	89.1(3.3)
	1990	91.9(0.7)	92.8(0.9)	91.0(1.0)	94.9(0.8)	82.9(2.1)	81.9(3.6)
	1986	91.4(1.1)	93.1(1.3)	89.7(1.4)	94.3(1.0)	81.6(2.5)	79.6(4.3)
	1982	91.4(0.9)	92.5(1.0)	90.3(1.2)	93.3(1.0)	81.9(2.6)	90.7(2.9)
	1977	91.4(0.9)	92.5(1.0)	90.3(1.2)	93.3(1.0)	81.9(2.6)	90.7(2.9)
See atom w/magnifying glass?	1994	72.3(1.5)	76.1(2.0)	68.5(2.1)	79.6(1.2)	47.3(4.7)	56.3(3.9)
	1992	74.2(1.2)	77.7(1.6)	70.5(1.5)	81.2(1.4)	47.0(4.3)	58.7(4.1)
	1990	71.4(1.5)	76.8(1.6)	66.3(2.1)	79.6(1.3)	40.9(4.8)	56.0(5.6)
	1986	72.8(1.7)	77.7(1.4)	68.0(3.2)	79.6(1.7)	46.7(3.8)	47.8(3.8)
	1982	75.6(1.4)	78.5(1.5)	72.6(1.9)	80.9(1.4)	47.6(4.2)	60.3(5.4)
	1977	75.6(1.4)	78.5(1.5)	72.6(1.9)	80.9(1.4)	47.6(4.2)	60.3(5.4)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
See atom w/microscope?	1994	55.9(1.2)	59.9(2.0)	52.0(1.9)	62.4(1.2)	32.4(2.8)	44.3(3.7)
	1992	54.0(1.4)	57.7(2.2)	50.0(1.7)	59.3(1.7)	34.7(3.0)	40.4(4.8)
	1990	53.9(1.3)	58.4(1.7)	49.5(1.8)	59.4(1.3)	33.8(3.8)	42.4(3.1)
	1986	56.8(1.7)	60.8(1.8)	52.8(2.1)	61.1(1.8)	39.8(2.7)	43.5(6.0)
	1977	63.5(1.5)	67.1(2.0)	59.8(1.6)	66.4(1.8)	50.5(3.9)	53.8(7.1)
Heating 2 pans: Heats fastest	1994	73.7(1.2)	76.6(2.1)	70.9(1.6)	80.3(1.2)	52.5(4.1)	60.4(2.5)
	1992	73.2(1.3)	75.3(1.9)	71.0(1.7)	78.7(1.4)	51.8(3.7)	64.3(4.4)
	1990	72.1(1.1)	78.4(1.5)	66.1(1.9)	77.5(1.2)	55.5(2.7)	53.0(3.8)
	1986	72.5(1.8)	75.9(1.7)	69.0(2.4)	77.1(1.8)	54.5(3.3)	54.8(5.0)
	1982	75.3(1.5)	79.1(1.6)	71.9(2.2)	79.6(1.4)	54.8(3.7)	65.9(5.2)
	1977	76.1(1.5)	79.7(1.8)	72.7(2.1)	81.8(1.4)	49.5(3.9)	53.8(4.6)
Heating 2 pans: Heats most	1994	40.6(1.0)	40.2(1.3)	41.1(1.5)	40.7(1.3)	45.1(2.3)	32.7(3.6)
	1992	39.5(1.3)	40.7(1.8)	38.2(1.8)	39.3(1.5)	42.0(2.6)	31.4(3.5)
	1990	37.3(1.0)	35.7(1.5)	38.9(1.5)	36.9(1.2)	38.7(3.4)	40.0(3.8)
	1986	38.9(0.9)	38.8(1.8)	38.9(1.6)	37.6(1.1)	44.9(3.1)	40.9(4.6)
	1982	40.7(1.4)	37.9(2.3)	43.3(1.5)	41.5(1.5)	40.4(3.9)	33.5(2.5)
	1977	36.9(0.9)	37.1(1.4)	36.8(1.6)	37.3(1.1)	38.2(2.0)	27.5(4.8)
Heating 2 pans: Cools fastest	1994	63.2(1.1)	57.7(1.7)	68.5(1.5)	65.6(1.1)	58.4(3.2)	54.7(3.2)
	1992	65.0(1.1)	62.6(1.6)	67.7(1.5)	66.7(1.3)	61.8(3.2)	54.0(5.5)
	1990	62.7(1.2)	57.4(2.0)	67.7(1.4)	64.1(1.3)	55.0(2.8)	62.6(2.8)
	1986	65.8(1.6)	63.5(2.3)	68.2(1.8)	66.7(2.2)	61.8(2.4)	63.4(3.0)
	1982	69.1(1.2)	64.4(1.7)	73.5(1.3)	71.4(1.4)	59.0(3.5)	62.0(3.7)
	1977	69.4(1.0)	66.7(1.6)	72.0(1.2)	70.8(1.0)	65.0(3.3)	58.5(2.6)
Tissues and cells	1994	61.6(1.5)	62.6(1.8)	60.7(1.8)	65.0(1.6)	55.9(2.7)	43.5(4.4)
	1992	55.3(1.6)	56.8(2.0)	53.7(2.0)	58.2(1.7)	45.2(3.2)	48.5(4.4)
	1990	56.8(1.5)	57.1(1.7)	56.5(2.0)	58.5(1.9)	50.3(2.6)	52.3(5.5)
	1986	56.6(1.8)	57.2(2.2)	56.1(2.2)	58.1(2.1)	51.2(2.7)	50.9(4.1)
	1982	51.1(1.8)	52.9(2.0)	49.4(2.1)	52.9(2.1)	42.5(4.4)	43.2(6.9)
	1977	52.5(1.5)	51.1(2.3)	54.0(1.6)	53.9(1.5)	42.9(3.7)	56.0(6.1)
Melting crushed ice	1994	41.8(1.7)	45.5(2.4)	38.1(2.0)	48.7(1.6)	17.2(2.3)	27.6(3.9)
	1992	42.3(1.2)	46.0(1.7)	38.4(1.7)	47.9(1.4)	18.7(2.3)	35.9(3.2)
	1990	44.0(1.1)	47.5(1.7)	40.6(1.5)	47.5(1.4)	30.1(2.5)	38.0(4.2)
	1986	39.6(1.6)	45.0(1.7)	34.2(2.6)	43.8(1.9)	21.0(3.3)	25.2(5.5)
	1982	44.6(1.7)	51.4(2.3)	38.3(1.8)	47.5(2.0)	28.8(3.1)	37.7(4.1)
	1977	52.2(1.9)	56.8(2.1)	47.9(2.5)	56.5(1.8)	28.7(2.5)	43.7(3.3)
Function of red blood cells	1994	55.5(1.6)	58.5(1.8)	52.6(2.0)	58.8(1.9)	43.0(3.3)	52.5(4.1)
	1992	55.7(1.3)	59.2(1.6)	52.0(2.3)	57.5(1.5)	45.6(4.4)	57.6(4.7)
	1990	58.5(1.2)	63.1(1.2)	54.2(1.8)	60.2(1.5)	57.9(3.2)	47.0(4.7)
	1986	58.0(2.0)	60.8(2.7)	55.2(1.9)	58.5(2.2)	59.8(3.2)	50.4(4.2)
	1982	57.7(1.3)	59.4(1.9)	56.1(2.2)	58.8(1.7)	54.8(2.9)	46.1(3.5)
	1977	54.2(1.6)	55.5(2.0)	52.8(1.8)	55.3(1.7)	51.6(2.6)	39.1(4.7)
How to recover salt from water	1994	43.6(1.3)	46.9(1.5)	40.3(1.8)	46.0(1.4)	32.5(3.9)	40.0(3.3)
	1992	40.3(1.7)	41.5(2.2)	39.0(2.2)	42.4(1.9)	30.9(2.5)	34.7(5.2)
	1990	38.1(1.2)	41.4(1.7)	34.9(1.7)	39.6(1.3)	36.7(2.3)	29.8(4.1)
	1986	37.6(1.5)	43.1(2.3)	32.0(1.8)	40.3(1.6)	29.1(3.0)	23.2(3.0)
	1977	42.1(1.6)	48.5(1.9)	36.0(2.0)	44.2(1.9)	30.5(1.9)	36.8(4.9)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Water temperature for swimming	1994	34.7(1.4)	41.2(1.7)	28.4(1.7)	38.5(2.0)	23.8(3.3)	22.2(3.3)
	1992	35.7(1.6)	40.8(1.9)	30.4(2.2)	39.0(1.8)	26.1(2.4)	20.4(4.4)
	1990	36.8(1.4)	41.8(1.7)	32.1(1.8)	40.4(1.7)	26.2(2.8)	25.4(4.5)
	1986	33.2(1.7)	37.3(2.7)	29.2(2.0)	34.8(2.0)	27.9(2.6)	25.1(4.0)
	1982	33.8(1.8)	38.0(2.4)	30.0(2.1)	35.7(2.2)	23.6(3.8)	31.4(4.9)
	1977	27.4(2.2)	32.2(2.2)	22.6(2.7)	29.9(2.4)	19.3(3.5)	9.6(2.6)
Sulfur dioxide and acid rain	1994	55.1(1.7)	58.8(2.0)	51.6(2.1)	60.0(1.6)	40.4(5.0)	42.6(3.3)
	1992	59.2(1.6)	62.0(2.2)	56.1(2.0)	64.0(1.8)	39.6(3.5)	49.4(3.5)
	1990	53.7(1.5)	61.7(1.8)	46.0(1.8)	59.4(1.6)	34.6(3.1)	40.7(3.6)
	1986	56.1(1.7)	61.6(2.5)	50.6(3.4)	59.3(1.7)	42.7(4.0)	45.4(7.0)
	1982	35.2(1.7)	39.4(2.2)	31.4(1.5)	37.7(1.9)	21.6(3.5)	32.0(6.6)
	1977	19.9(1.3)	23.6(2.2)	16.4(1.5)	20.6(1.6)	17.6(1.7)	15.3(3.4)
Water is part of all cells	1994	47.8(1.2)	50.6(1.8)	44.9(1.8)	49.8(1.4)	43.0(2.4)	44.3(4.9)
	1992	43.2(1.3)	43.6(1.8)	42.8(2.0)	44.5(1.5)	41.6(2.4)	30.1(4.7)
	1990	49.8(1.3)	50.6(1.6)	49.0(2.0)	50.1(1.5)	52.1(4.4)	46.8(4.3)
	1986	47.2(2.7)	47.4(3.3)	46.9(2.8)	48.0(3.4)	48.0(2.6)	36.4(3.4)
	1982	34.1(1.5)	35.6(1.5)	32.6(2.2)	33.3(1.8)	37.3(2.6)	37.5(3.7)
	1977	34.1(1.5)	35.6(1.5)	32.6(2.2)	33.3(1.8)	37.3(2.6)	37.5(3.7)
Wolves and caribou	1994	49.7(1.5)	54.5(2.0)	45.1(1.8)	57.4(1.5)	27.3(3.6)	29.1(2.3)
	1992	47.6(1.6)	51.5(2.0)	43.5(2.3)	53.2(2.0)	27.8(2.6)	32.7(3.5)
	1990	43.9(1.3)	48.5(1.6)	39.5(1.8)	49.6(1.7)	24.8(2.2)	30.4(4.1)
	1986	41.2(2.2)	46.6(1.6)	35.7(4.5)	45.0(2.5)	28.7(2.9)	25.3(4.3)
	1982	34.6(1.6)	39.4(1.7)	30.0(2.3)	38.4(1.7)	18.1(2.7)	22.0(3.2)
	1977	34.6(1.6)	39.4(1.7)	30.0(2.3)	38.4(1.7)	18.1(2.7)	22.0(3.2)
Cells, tissues, organs	1994	38.4(1.4)	37.6(2.0)	39.3(1.5)	42.4(1.3)	26.9(4.1)	26.3(3.5)
	1992	36.0(1.5)	34.8(1.5)	37.3(2.3)	38.4(1.7)	26.3(3.5)	30.7(4.7)
	1990	36.3(1.3)	36.7(1.8)	35.9(1.6)	39.0(1.4)	27.5(2.7)	22.4(3.5)
	1986	33.5(1.6)	32.8(1.9)	34.2(2.0)	35.0(1.9)	27.4(3.0)	29.1(3.7)
	1982	25.2(1.3)	25.1(1.9)	25.2(1.6)	26.6(1.4)	18.6(2.6)	19.3(5.1)
	1977	25.2(1.3)	25.1(1.9)	25.2(1.6)	26.6(1.4)	18.6(2.6)	19.3(5.1)
Effects of pepsin	1994	25.2(1.0)	28.8(1.5)	21.5(1.5)	27.0(1.0)	17.9(2.1)	21.6(5.3)
	1992	24.6(1.2)	27.8(1.3)	21.3(1.8)	26.6(1.5)	17.5(2.1)	18.1(4.3)
	1990	23.6(1.4)	26.0(1.8)	21.4(1.5)	25.5(1.8)	15.9(2.0)	18.5(1.9)
	1986	25.3(1.4)	30.2(1.8)	20.4(1.8)	26.9(1.7)	20.1(2.5)	21.2(2.2)
	1982	24.6(1.8)	29.8(2.2)	19.8(1.9)	25.2(2.1)	22.4(3.0)	14.2(4.6)
	1977	31.0(1.3)	32.7(1.6)	29.1(1.9)	32.3(1.6)	21.5(1.9)	30.6(4.1)
Seed germination	1994	15.7(0.8)	17.2(1.2)	14.2(1.2)	16.1(1.2)	14.0(1.6)	15.6(2.9)
	1992	15.8(1.2)	17.7(1.6)	13.7(1.1)	15.3(1.3)	19.7(2.1)	14.0(3.6)
	1990	15.7(0.9)	16.8(1.3)	14.6(1.3)	15.8(1.0)	14.1(2.6)	18.9(2.5)
	1986	17.6(1.4)	16.4(2.2)	18.8(1.5)	18.4(1.7)	13.9(1.7)	15.9(2.1)
	1982	21.0(1.3)	20.9(1.5)	21.1(1.5)	20.8(1.3)	22.9(3.1)	18.6(3.8)
	1977	21.0(1.3)	22.1(2.0)	20.0(1.2)	21.6(1.6)	21.2(3.2)	14.0(2.7)
Efficient use of grain as food	1994	20.0(0.8)	23.0(1.4)	17.0(1.3)	19.6(0.9)	19.3(2.3)	23.8(3.5)
	1992	18.0(0.9)	20.5(1.3)	15.3(1.4)	18.5(1.1)	16.0(1.7)	14.3(2.6)
	1990	19.7(0.9)	20.3(1.3)	19.2(1.1)	20.4(1.1)	16.6(2.3)	19.7(1.9)
	1986	22.3(1.3)	25.5(1.6)	19.1(1.9)	22.6(1.5)	21.1(2.6)	22.2(3.9)
	1982	18.4(1.2)	21.7(1.7)	15.2(1.6)	19.2(1.2)	14.5(3.6)	12.7(3.5)
	1977	21.9(0.9)	25.4(1.7)	18.5(1.2)	23.1(1.2)	18.1(2.0)	16.9(3.9)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
World population growth	1994	13.2(1.0)	15.6(1.8)	10.9(0.8)	14.9(1.2)	6.9(2.2)	9.5(2.3)
	1992	13.3(0.9)	16.6(1.3)	9.9(1.1)	15.0(1.1)	6.0(1.3)	12.2(2.6)
	1990	14.3(0.9)	17.3(1.7)	11.5(0.8)	16.3(1.1)	8.5(2.7)	8.2(2.1)
	1986	12.6(1.1)	13.7(1.5)	11.5(1.5)	13.4(1.4)	11.4(2.7)	7.3(2.4)
	1982	12.4(1.1)	16.4(1.6)	8.6(1.0)	13.4(1.3)	7.4(1.7)	9.0(2.2)
	1977	13.8(0.8)	17.3(1.2)	10.4(1.3)	15.0(0.9)	9.3(1.4)	11.2(2.6)
Saving resources: Insulation	1994	61.9(1.7)	66.8(2.0)	57.5(2.3)	63.2(1.6)	60.9(5.5)	53.8(3.5)
	1992	66.6(1.1)	70.4(1.3)	62.7(1.7)	69.2(1.4)	58.0(2.5)	59.8(4.5)
	1990	66.8(1.2)	71.3(1.2)	62.6(1.9)	69.6(1.4)	63.0(3.9)	56.7(4.2)
	1986	80.7(1.7)	84.7(2.4)	76.8(1.9)	81.7(2.1)	76.4(2.8)	76.8(3.2)
	1982	88.9(1.1)	89.7(1.1)	88.2(1.6)	89.2(1.3)	86.5(2.3)	90.7(1.8)
	1977	91.6(0.9)	92.9(1.1)	90.3(1.3)	93.4(1.0)	85.9(2.6)	87.3(2.4)
Saving resources: Planting	1994	73.5(1.4)	73.3(1.5)	73.8(1.9)	78.0(1.2)	57.6(5.7)	66.1(3.1)
	1992	73.5(1.0)	73.7(1.3)	73.3(1.4)	75.9(1.2)	62.7(4.0)	67.4(2.9)
	1990	69.6(1.2)	70.5(1.6)	68.8(1.7)	72.6(1.4)	60.6(3.8)	61.2(3.0)
	1986	62.8(1.6)	65.2(1.9)	60.4(1.7)	64.9(2.0)	51.8(2.8)	61.7(4.5)
	1982	47.5(1.9)	49.7(2.6)	45.4(2.6)	47.9(2.3)	44.7(3.8)	42.1(6.7)
	1977	69.9(1.2)	70.6(1.5)	69.3(1.6)	72.0(1.1)	63.4(2.4)	55.7(9.5)
Saving resources: Throwaways	1994	65.0(1.4)	63.1(1.9)	66.6(1.8)	70.5(1.3)	46.5(5.2)	51.3(4.1)
	1992	69.1(1.3)	67.9(1.8)	70.3(1.5)	73.6(1.3)	47.9(3.6)	63.1(5.0)
	1990	49.5(1.4)	50.3(1.5)	48.8(1.7)	53.2(1.4)	40.9(3.7)	35.7(5.3)
	1986	47.2(1.7)	50.3(1.8)	44.1(2.4)	49.4(2.3)	38.0(2.8)	40.0(3.7)
	1982	58.7(1.2)	60.2(1.4)	57.2(1.6)	61.0(1.3)	47.3(2.9)	52.8(5.0)
	1977	54.2(1.6)	56.9(2.0)	51.5(1.8)	56.7(1.8)	39.3(3.0)	51.1(4.8)
Saving resources: Lawns	1994	41.4(1.3)	41.4(1.6)	41.3(1.8)	44.6(1.5)	33.4(3.6)	32.3(3.7)
	1992	45.6(1.5)	48.2(2.0)	43.1(1.7)	48.2(2.0)	32.3(2.8)	43.4(4.5)
	1990	42.1(1.1)	45.1(1.4)	39.2(1.6)	44.7(1.1)	31.6(3.5)	34.1(4.7)
	1986	45.5(1.4)	47.3(2.3)	43.7(2.0)	48.9(1.6)	30.7(3.8)	37.7(4.0)
	1982	63.5(2.0)	66.9(1.9)	60.1(2.4)	67.6(2.1)	42.0(2.9)	57.3(5.2)
	1977	51.0(1.3)	51.9(1.9)	50.1(2.2)	53.8(1.4)	35.2(2.9)	47.3(6.2)
Plate tectonics: Mountains	1994	66.4(1.4)	67.8(1.5)	65.1(2.3)	68.6(1.3)	60.6(6.4)	56.7(3.9)
	1992	67.3(1.4)	68.5(1.8)	66.1(1.7)	70.2(1.6)	57.5(3.2)	55.8(3.7)
	1990	67.5(1.7)	67.8(2.7)	67.2(1.9)	71.2(1.8)	58.0(3.0)	53.4(3.2)
	1986	64.9(1.7)	67.6(2.0)	62.2(2.7)	69.1(2.0)	45.9(2.9)	54.9(5.2)
	1982	65.0(1.8)	67.6(1.9)	62.4(2.5)	67.7(1.9)	49.2(3.9)	64.7(4.6)
	1977	72.2(1.4)	71.9(1.9)	72.5(1.8)	75.5(1.4)	57.1(2.5)	59.8(7.3)
Plate tectonics: Weather	1994	57.1(1.7)	58.7(1.5)	55.7(2.7)	63.2(1.4)	41.7(9.2)	34.0(3.0)
	1992	59.2(1.7)	60.2(2.1)	58.2(1.9)	65.7(1.5)	29.3(3.7)	50.9(4.4)
	1990	58.6(1.6)	60.5(1.9)	56.8(2.1)	65.5(1.5)	38.2(4.3)	37.2(4.1)
	1986	53.1(1.3)	56.3(1.7)	49.9(2.1)	58.1(1.4)	31.6(2.7)	36.6(7.1)
	1982	69.0(1.7)	70.4(2.4)	67.6(2.0)	73.8(1.6)	50.3(3.7)	45.1(4.4)
	1977	55.9(1.8)	56.0(1.7)	55.8(2.2)	61.3(1.9)	34.6(2.9)	32.4(4.4)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Plate tectonics: Earthquakes	1994	84.2(1.1)	83.4(1.5)	85.0(1.4)	86.7(1.1)	75.3(4.9)	79.9(2.4)
	1992	87.0(1.1)	87.4(1.4)	86.7(1.4)	89.9(0.8)	77.2(2.8)	79.8(5.3)
	1990	87.7(1.0)	88.0(1.2)	87.4(1.2)	89.4(1.0)	82.8(2.7)	81.2(2.8)
	1986	78.9(1.3)	81.1(1.9)	76.7(1.4)	81.4(1.5)	69.2(2.5)	69.6(4.8)
	1982	82.9(0.9)	82.9(1.3)	82.8(1.4)	84.9(1.2)	72.4(3.1)	78.4(2.8)
	1977	84.1(1.1)	84.2(1.3)	84.0(1.5)	87.6(1.1)	70.3(2.9)	63.5(9.2)
Plate tectonics: Continents	1994	72.5(1.5)	72.6(1.9)	72.4(2.0)	76.6(1.3)	60.6(6.2)	58.3(4.5)
	1992	72.9(1.5)	73.1(2.0)	72.8(1.7)	78.6(1.2)	49.4(4.1)	61.8(3.3)
	1990	73.5(1.5)	73.0(1.9)	74.0(1.7)	78.0(1.4)	58.6(4.4)	59.6(3.6)
	1986	65.8(1.2)	67.1(1.5)	64.5(1.9)	70.5(1.4)	46.1(2.8)	52.1(5.6)
	1982	64.8(1.7)	64.1(2.3)	65.6(2.1)	69.2(1.9)	42.5(3.8)	52.3(3.1)
	1977	62.5(1.8)	63.2(1.9)	61.9(2.4)	68.3(1.8)	38.2(3.6)	41.7(5.4)
Plate tectonics: Moon	1994	68.4(1.6)	67.4(1.8)	69.4(2.4)	74.3(1.5)	52.2(7.6)	47.6(3.4)
	1992	69.0(1.6)	68.3(1.7)	69.6(1.9)	74.2(1.5)	45.9(4.9)	59.9(5.3)
	1990	68.9(1.5)	67.8(1.7)	70.0(2.0)	73.6(1.4)	53.1(4.2)	55.8(3.0)
	1986	60.0(1.6)	59.6(1.9)	60.4(2.1)	64.4(2.0)	41.4(2.5)	42.8(4.2)
	1982	78.2(1.6)	77.8(2.0)	78.5(2.0)	82.6(1.3)	58.7(2.9)	59.9(3.9)
	1977	64.6(1.8)	61.5(1.6)	67.5(2.6)	69.3(1.7)	46.7(3.0)	36.3(5.9)
Present energy source in U.S.	1994	42.7(1.6)	44.4(1.7)	41.1(2.4)	46.8(1.8)	33.3(6.4)	22.5(3.5)
	1992	46.6(1.8)	48.5(2.5)	44.7(1.8)	50.3(2.3)	35.0(3.2)	33.1(3.5)
	1990	42.3(1.6)	46.0(2.1)	38.8(1.7)	46.7(1.5)	32.5(4.6)	21.8(3.8)
	1986	41.3(1.6)	45.5(1.9)	37.3(2.4)	44.4(1.9)	32.2(3.1)	23.2(3.3)
	1982	65.9(1.8)	67.2(2.4)	64.8(1.8)	70.5(1.5)	47.4(2.7)	50.2(6.7)
	1977	56.4(1.7)	61.6(2.1)	51.4(2.1)	61.3(2.0)	37.0(2.2)	36.8(5.1)
Components of solar system	1994	73.7(1.5)	73.1(1.8)	74.3(2.3)	76.4(1.3)	66.0(6.0)	62.9(4.2)
	1992	71.6(1.5)	72.6(1.6)	70.7(2.0)	74.4(1.6)	60.0(3.7)	62.8(3.1)
	1990	72.6(1.1)	71.5(1.4)	73.6(1.5)	75.8(1.2)	61.9(3.5)	66.8(5.3)
	1986	65.5(1.6)	67.7(2.3)	63.3(2.1)	67.7(2.0)	56.5(2.7)	59.4(5.9)
	1982	70.9(1.5)	72.1(2.1)	69.8(1.8)	73.6(1.4)	59.7(4.9)	62.5(3.9)
	1977	70.3(1.5)	71.1(2.0)	69.6(1.7)	73.9(1.6)	56.0(3.6)	55.1(4.8)
Acceleration of ball on ramp	1994	59.7(1.5)	63.3(1.4)	56.3(2.7)	65.1(1.6)	46.2(2.9)	39.1(4.7)
	1992	61.0(1.4)	64.8(1.9)	57.2(1.7)	67.5(1.4)	35.3(3.6)	49.8(4.9)
	1990	60.3(1.3)	66.3(1.6)	54.6(1.7)	64.8(1.3)	45.4(4.0)	48.1(4.1)
	1986	59.8(1.8)	65.8(1.9)	53.7(2.4)	63.8(2.2)	46.0(3.1)	44.8(4.2)
	1982	63.3(1.7)	66.7(1.9)	60.1(2.1)	67.7(1.6)	44.1(5.0)	51.9(3.3)
	1977	64.0(1.3)	69.6(1.9)	58.5(1.4)	68.8(1.2)	41.8(2.8)	46.8(4.8)
Weather: Wind speed	1994	88.9(0.9)	87.6(1.2)	90.0(1.1)	92.2(1.0)	79.3(3.7)	79.1(3.0)
	1992	90.4(1.0)	90.7(1.3)	90.1(1.1)	92.6(1.1)	80.0(3.1)	89.5(3.0)
	1990	88.8(0.9)	88.0(1.3)	89.7(1.0)	92.2(0.7)	79.1(4.3)	78.5(5.0)
	1986	87.0(1.0)	87.9(1.6)	86.1(1.4)	89.7(1.1)	75.8(2.1)	79.6(4.5)
	1982	77.5(1.3)	77.4(1.6)	77.5(1.8)	80.1(1.1)	66.1(4.6)	67.0(5.0)
	1977	87.7(1.1)	86.5(1.7)	88.8(0.9)	91.4(0.7)	70.3(3.1)	80.1(4.5)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Weather: Sunrise	1994	63.0(1.6)	59.0(2.0)	66.7(2.0)	66.4(1.7)	54.0(6.6)	49.8(3.0)
	1992	63.3(1.4)	59.8(1.7)	66.7(1.8)	65.0(1.7)	55.8(2.9)	56.7(6.4)
	1990	63.2(1.3)	58.8(1.5)	67.4(1.9)	65.9(1.4)	51.6(3.7)	58.8(3.6)
	1986	64.0(1.2)	61.6(1.5)	66.5(1.5)	65.1(1.3)	57.4(2.4)	66.2(4.5)
	1982	54.2(1.3)	53.5(1.8)	54.8(1.7)	54.7(1.5)	50.8(3.3)	55.2(6.2)
	1977	51.1(1.6)	49.8(2.0)	52.5(1.8)	52.7(1.9)	45.0(2.9)	39.5(6.0)
Weather: Rainfall	1994	76.2(1.0)	76.0(1.3)	76.4(1.5)	80.0(1.0)	65.5(4.7)	65.5(4.5)
	1992	77.0(1.4)	78.0(1.8)	76.0(1.6)	81.2(1.6)	63.4(4.1)	59.4(5.4)
	1990	75.8(1.2)	75.1(1.5)	76.4(1.5)	79.2(1.2)	64.7(3.5)	64.8(3.4)
	1986	76.4(1.2)	77.1(1.8)	75.8(1.3)	81.3(1.3)	59.6(3.5)	59.7(5.3)
	1982	69.0(1.5)	69.3(1.9)	68.7(1.8)	72.9(1.4)	52.2(3.4)	50.8(5.3)
	1977	79.8(1.3)	79.8(1.7)	79.9(1.6)	84.1(1.1)	59.7(2.3)	70.0(5.3)
Weather: Humidity	1994	82.3(1.1)	79.2(1.5)	85.1(1.6)	86.1(1.3)	72.4(4.8)	67.9(5.6)
	1992	83.0(1.0)	81.1(1.4)	84.9(1.2)	87.0(1.0)	66.1(3.2)	74.3(3.5)
	1990	83.2(1.2)	81.7(1.6)	84.6(1.2)	87.0(0.9)	70.9(4.4)	71.9(4.8)
	1986	80.0(1.1)	79.7(1.4)	80.3(2.2)	83.8(1.4)	65.2(2.8)	68.7(4.7)
	1982	68.9(1.5)	70.6(1.7)	67.3(2.1)	72.0(1.6)	56.8(3.8)	49.9(3.8)
	1977	80.6(1.0)	79.9(1.4)	81.4(1.0)	83.5(1.0)	67.9(2.2)	72.5(3.8)
Weather: First day of spring	1994	59.1(1.7)	61.9(1.9)	56.7(2.1)	61.9(2.0)	53.0(4.7)	45.5(4.4)
	1992	61.0(1.6)	62.8(2.0)	59.2(1.8)	63.8(1.7)	53.1(3.2)	48.0(6.5)
	1990	60.6(1.2)	62.3(1.6)	59.0(1.3)	63.0(1.3)	52.7(2.9)	57.5(3.2)
	1986	64.2(1.0)	64.8(1.6)	63.6(2.5)	66.6(1.2)	55.5(2.4)	56.9(3.2)
	1982	65.1(1.2)	66.3(1.6)	64.0(1.9)	66.3(1.4)	59.2(2.3)	60.8(4.8)
	1977	62.0(1.4)	64.8(1.6)	59.2(1.8)	63.4(1.4)	61.2(2.8)	41.0(7.9)
Weather: Average temperature	1994	62.6(1.2)	60.2(1.7)	64.7(1.5)	65.5(1.3)	56.5(3.3)	50.1(4.1)
	1992	63.7(1.3)	64.9(2.1)	62.5(1.4)	65.8(1.3)	54.7(2.5)	60.6(6.2)
	1990	60.2(1.6)	60.7(1.9)	59.7(2.0)	63.7(1.6)	50.9(3.4)	43.5(5.9)
	1986	61.0(1.6)	62.2(1.8)	59.7(2.3)	62.8(1.9)	54.8(2.8)	53.0(5.6)
	1982	54.2(1.3)	55.5(1.5)	53.0(1.7)	56.1(1.4)	48.3(3.2)	41.5(4.5)
	1977	62.2(1.3)	61.2(1.7)	63.2(1.5)	64.9(1.3)	49.9(3.3)	56.5(5.6)
Communicating on the moon	1994	61.8(1.2)	70.5(1.5)	53.9(1.5)	65.1(1.5)	52.0(2.2)	50.5(2.9)
	1992	62.3(1.4)	68.5(1.5)	56.1(2.0)	64.7(1.6)	47.4(3.7)	63.0(3.1)
	1990	61.5(1.3)	69.9(1.8)	53.4(1.7)	63.6(1.4)	49.4(3.1)	63.9(5.2)
	1986	60.5(1.2)	67.0(2.1)	54.1(2.4)	61.8(1.5)	53.4(3.1)	55.9(6.2)
	1982	55.5(1.5)	66.4(1.3)	45.2(2.0)	57.7(1.7)	42.2(2.6)	51.2(3.0)
	1977	59.3(1.7)	66.1(2.3)	52.4(2.1)	62.8(1.7)	45.8(2.8)	37.3(4.8)
Half-life	1994	47.5(1.7)	49.0(1.7)	46.3(2.4)	48.4(1.8)	44.2(5.0)	44.5(5.0)
	1992	50.0(1.6)	50.5(2.0)	49.6(1.9)	49.9(1.8)	45.2(4.1)	54.0(5.0)
	1990	50.0(1.4)	50.4(1.7)	49.7(1.7)	50.1(1.5)	49.9(3.2)	49.4(6.9)
	1986	55.1(1.4)	59.7(1.7)	50.5(2.3)	56.1(1.7)	51.0(2.9)	48.6(3.2)
	1982	50.6(2.1)	54.0(2.4)	47.5(2.5)	49.7(2.5)	54.7(2.5)	53.5(4.2)
	1977	49.6(1.5)	50.3(1.8)	48.8(2.0)	51.4(1.8)	44.4(3.6)	35.9(5.4)
Speed of light and sound	1994	19.3(1.4)	19.9(1.3)	18.8(2.0)	21.3(1.5)	14.0(4.5)	12.6(2.8)
	1992	20.2(1.2)	22.0(1.5)	18.5(1.4)	22.6(1.4)	10.7(2.6)	12.2(3.6)
	1990	18.5(1.1)	21.4(1.5)	15.8(1.4)	20.4(1.2)	11.5(2.0)	13.1(2.9)
	1986	14.9(1.3)	17.6(1.4)	12.4(1.8)	15.8(1.5)	10.5(1.3)	11.2(3.9)
	1977	16.7(1.3)	17.9(1.7)	15.4(1.5)	17.9(1.4)	13.0(1.8)	10.8(3.9)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Angle of reflection	1994	52.8(1.0)	59.8(1.5)	46.6(1.7)	56.6(1.5)	42.3(3.6)	41.5(4.9)
	1992	55.7(1.5)	62.2(1.9)	49.3(2.1)	58.2(1.7)	45.1(3.8)	50.4(2.9)
	1990	56.1(1.4)	64.2(1.6)	48.4(2.0)	59.8(1.4)	40.6(3.2)	51.9(4.4)
	1986	50.8(2.3)	59.9(3.6)	41.8(2.1)	51.9(2.9)	43.9(2.8)	48.9(3.6)
	1982	46.9(1.9)	55.8(2.8)	38.6(1.6)	50.5(1.9)	29.6(3.7)	38.7(5.0)
	1977	47.8(1.1)	56.0(1.8)	39.6(1.6)	51.0(1.3)	31.9(2.3)	35.8(5.4)
Earth's crust: Oldest layers	1994	49.9(1.4)	48.0(1.7)	51.6(2.4)	52.4(1.6)	43.6(5.8)	42.2(4.3)
	1992	50.8(1.3)	51.3(1.8)	50.3(1.8)	54.4(1.5)	35.8(2.4)	46.0(3.9)
	1990	50.7(1.5)	50.1(1.8)	51.3(2.1)	55.2(1.5)	36.5(3.9)	36.4(5.4)
	1986	46.1(1.9)	44.5(1.9)	47.7(3.5)	50.0(2.2)	31.0(2.3)	32.1(3.8)
	1977	42.6(1.5)	42.5(1.9)	42.6(1.9)	46.6(1.6)	22.9(2.3)	30.8(5.2)
Earth's crust: Curved layers	1994	42.5(1.4)	45.8(1.8)	39.5(2.2)	42.5(1.7)	40.7(3.9)	45.9(4.4)
	1992	44.2(1.3)	46.2(1.8)	42.1(1.5)	45.0(1.5)	41.2(3.5)	39.7(4.8)
	1990	44.3(1.5)	44.9(1.8)	43.8(1.8)	46.0(1.6)	38.1(3.0)	39.7(4.3)
	1986	41.6(1.6)	44.2(1.7)	39.0(2.4)	42.7(1.9)	34.9(2.8)	40.2(4.0)
	1977	47.2(1.6)	50.6(1.9)	44.2(1.9)	48.9(1.7)	41.5(3.6)	35.5(3.4)
Measuring current in a circuit	1994	45.1(1.3)	41.6(1.8)	48.3(2.0)	44.6(1.4)	50.7(4.0)	38.0(3.1)
	1992	44.6(1.5)	40.0(2.1)	49.1(1.6)	45.3(1.6)	44.1(3.2)	37.3(4.6)
	1990	43.1(1.1)	40.6(1.3)	45.5(1.6)	43.0(1.3)	45.2(2.4)	39.2(3.6)
	1986	46.0(1.6)	43.9(2.5)	48.1(1.7)	46.0(1.9)	44.4(2.3)	42.3(3.6)
	1982	40.1(1.2)	40.4(1.9)	39.8(1.6)	41.3(1.3)	34.7(3.2)	43.7(5.9)
	1977	39.1(1.2)	37.0(2.2)	41.2(1.8)	39.1(1.2)	36.5(3.3)	49.2(4.2)
Movement of heated water	1994	39.2(1.5)	41.7(1.4)	37.0(2.3)	43.4(1.6)	26.2(6.8)	28.1(3.8)
	1992	36.0(1.3)	38.2(2.0)	33.7(1.6)	38.0(1.5)	27.4(2.3)	28.5(3.8)
	1990	37.5(1.3)	40.4(1.4)	34.8(1.8)	41.0(1.4)	27.4(3.0)	26.8(3.4)
	1986	37.8(1.2)	44.3(1.4)	31.3(2.2)	41.3(1.6)	20.3(2.2)	34.2(3.3)
	1977	34.4(1.9)	40.9(2.7)	27.9(1.6)	38.6(2.0)	15.5(2.1)	17.0(3.9)
Effect of clearing forests	1994	35.1(1.3)	36.8(2.3)	33.5(1.4)	39.9(1.6)	21.3(2.7)	25.3(5.8)
	1992	34.6(1.5)	35.3(2.0)	33.9(1.7)	37.7(1.6)	24.5(3.5)	23.9(4.4)
	1990	36.1(1.3)	40.3(1.5)	32.2(1.7)	39.9(1.3)	27.1(2.9)	21.1(3.0)
	1986	36.2(1.4)	41.0(1.9)	31.5(1.8)	40.6(1.6)	21.4(1.9)	19.9(3.9)
	1982	38.6(1.4)	42.5(2.0)	34.8(1.4)	42.2(1.5)	24.0(3.0)	24.8(5.4)
	1977	44.7(1.7)	52.1(2.0)	37.3(2.3)	49.0(1.7)	26.1(3.1)	23.4(4.0)
Describing the rock cycle	1994	29.7(1.1)	29.0(1.3)	30.4(1.8)	31.4(1.4)	23.9(1.9)	25.6(3.5)
	1992	30.9(1.1)	28.3(1.4)	33.5(1.5)	32.3(1.3)	26.0(3.0)	28.5(4.1)
	1990	29.6(1.2)	29.7(1.5)	29.5(1.8)	29.8(1.4)	29.8(3.0)	26.2(4.3)
	1986	29.8(1.2)	30.3(3.5)	29.4(3.1)	31.0(1.6)	24.8(2.2)	26.1(3.2)
	1982	30.0(1.7)	30.7(2.4)	29.4(2.1)	32.1(2.0)	18.6(2.1)	26.2(3.9)
	1977	31.0(1.6)	28.4(2.1)	33.7(1.5)	32.2(2.0)	26.6(2.8)	19.4(6.1)
Induction of electric current	1994	45.9(1.6)	49.3(2.3)	42.8(2.2)	49.2(1.9)	38.5(3.2)	31.8(2.7)
	1992	45.9(1.5)	49.0(1.7)	42.7(2.2)	48.9(1.8)	32.2(3.6)	38.7(5.6)
	1990	44.9(1.5)	52.1(2.1)	38.0(2.0)	47.4(1.7)	38.1(3.9)	33.6(4.1)
	1986	46.2(1.8)	54.0(2.8)	38.6(1.9)	49.5(2.2)	32.0(2.6)	36.5(4.5)
	1982	34.9(1.5)	44.2(1.8)	26.3(2.0)	36.5(1.6)	28.0(2.7)	28.5(4.6)
	1977	45.0(1.7)	51.1(2.2)	39.3(1.8)	47.0(1.9)	35.7(3.0)	31.7(5.7)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Balancing blocks on seesaw	1994	37.2(1.4)	47.2(1.9)	28.1(1.8)	42.3(1.5)	22.5(3.5)	21.0(3.3)
	1992	38.5(1.4)	47.1(2.0)	29.8(1.7)	43.7(1.7)	17.4(2.1)	27.2(3.5)
	1990	38.6(1.3)	50.6(1.8)	27.1(1.4)	43.9(1.2)	20.5(2.9)	25.3(3.5)
	1986	38.9(1.3)	45.5(1.7)	32.4(2.1)	43.8(1.6)	18.7(2.8)	28.4(3.4)
	1982	42.3(1.6)	54.0(2.1)	31.2(2.0)	46.1(1.8)	23.4(2.1)	29.1(3.3)
	1977	42.8(2.0)	52.9(2.5)	31.5(2.3)	48.2(2.1)	18.9(2.5)	21.6(2.8)
Air masses over oceans	1994	21.3(1.2)	22.7(1.3)	20.0(1.9)	23.6(1.3)	13.0(2.6)	21.6(5.6)
	1992	20.0(1.1)	22.2(1.5)	17.9(1.4)	22.1(1.4)	13.0(2.1)	10.4(2.9)
	1990	19.1(1.3)	20.6(1.4)	17.6(1.6)	20.8(1.4)	13.2(2.0)	16.0(2.9)
	1986	18.5(1.4)	21.1(2.0)	15.9(1.9)	19.1(1.7)	15.8(2.3)	17.0(2.8)
	1977	19.0(1.0)	21.2(1.6)	17.0(1.3)	20.4(1.3)	13.8(1.2)	10.9(2.4)
Product Z: Arthritis	1994	48.8(1.3)	47.9(1.9)	49.8(2.1)	54.5(1.2)	26.7(2.6)	36.4(3.7)
	1992	47.4(1.4)	44.7(2.1)	49.9(1.9)	53.3(1.7)	31.2(2.1)	31.4(3.1)
	1990	47.9(2.0)	44.9(2.2)	51.1(2.1)	54.6(1.8)	28.6(5.5)	30.6(3.5)
	1986	42.5(2.3)	39.9(2.8)	45.1(2.5)	47.6(2.4)	25.6(3.8)	27.9(4.0)
	1982	38.1(1.9)	38.9(2.5)	37.4(1.9)	40.6(2.0)	25.8(3.5)	29.3(5.1)
	1977	41.2(1.3)	36.2(2.0)	45.7(1.7)	44.7(1.4)	24.0(2.9)	29.6(4.3)
Product Z: Harm	1994	81.7(0.9)	79.3(1.3)	84.2(1.3)	84.5(1.0)	72.9(3.2)	72.6(4.0)
	1992	85.1(0.9)	85.1(1.2)	85.1(1.2)	88.2(1.0)	76.5(2.6)	77.4(3.4)
	1990	80.7(1.4)	78.4(1.9)	83.1(1.4)	86.3(1.1)	59.7(4.8)	73.7(3.0)
	1986	81.5(1.4)	79.1(2.0)	83.7(1.4)	84.6(1.6)	67.0(3.3)	77.2(4.1)
	1982	85.1(1.3)	81.5(2.1)	88.6(1.2)	87.5(1.6)	73.4(3.1)	77.3(5.8)
	1977	77.5(1.4)	75.5(1.8)	79.4(1.5)	81.4(1.5)	58.3(2.5)	65.8(4.5)
Product Z: Pain relief	1994	86.1(0.9)	83.5(1.5)	88.7(1.1)	87.8(0.9)	81.4(3.6)	82.7(2.3)
	1992	87.3(0.7)	84.5(1.0)	89.9(1.0)	90.7(0.7)	79.0(2.3)	74.9(2.9)
	1990	83.9(1.2)	82.5(1.5)	85.4(1.5)	87.4(0.9)	75.6(5.4)	72.3(4.2)
	1986	85.3(1.0)	82.4(1.7)	88.3(1.2)	87.4(1.1)	76.4(2.5)	81.8(2.8)
	1982	82.7(1.2)	80.9(1.6)	84.4(1.4)	84.8(1.5)	72.7(2.5)	76.4(3.4)
	1977	80.9(1.1)	78.3(2.0)	83.3(1.1)	84.7(1.0)	63.6(2.4)	67.8(4.6)
Product Z: Feel better	1994	84.4(1.2)	81.8(1.7)	87.0(1.4)	87.5(1.2)	71.3(3.5)	76.0(5.4)
	1992	86.1(0.9)	83.6(1.3)	88.5(1.0)	90.1(0.9)	75.5(3.2)	75.1(3.0)
	1990	81.7(1.4)	79.8(1.9)	83.6(1.5)	86.9(1.2)	63.7(4.2)	70.6(3.1)
	1986	83.5(1.2)	80.9(1.7)	86.0(1.3)	87.5(1.0)	65.5(4.0)	76.3(2.4)
	1982	83.1(1.4)	81.0(1.8)	85.2(1.3)	86.6(1.3)	68.6(4.1)	69.6(4.8)
	1977	76.4(1.6)	73.7(2.3)	78.8(1.5)	81.0(1.5)	56.5(3.1)	56.7(5.3)
Use of controls in experiments	1994	68.2(1.4)	65.3(1.9)	71.1(1.6)	70.2(1.6)	59.4(2.5)	71.4(3.8)
	1992	70.3(0.9)	66.4(1.4)	73.9(1.5)	72.4(1.1)	65.1(2.7)	64.2(3.6)
	1990	70.1(1.5)	67.6(1.7)	72.8(1.6)	73.0(1.6)	62.3(4.2)	62.9(3.4)
	1986	71.2(1.4)	69.4(1.9)	73.1(1.7)	73.3(1.7)	64.6(2.4)	64.5(4.3)
	1977	71.1(1.2)	69.5(1.6)	72.8(1.6)	73.8(1.4)	58.0(2.2)	66.2(5.7)
Using a branching key: Shape	1994	77.6(1.1)	76.5(1.6)	78.7(1.5)	80.3(1.2)	63.4(3.2)	74.2(5.3)
	1992	75.6(1.0)	73.8(1.6)	77.2(1.4)	79.8(1.1)	64.7(2.8)	62.4(4.5)
	1990	70.8(1.5)	69.0(1.8)	72.7(1.8)	75.4(1.4)	54.1(4.9)	62.5(3.1)
	1986	69.5(1.3)	66.9(2.6)	72.0(1.4)	73.8(1.5)	53.6(3.0)	54.5(3.9)
	1982	70.8(1.2)	69.5(1.5)	72.0(1.6)	72.6(1.3)	62.2(2.9)	63.0(5.8)
	1977	67.0(1.6)	64.9(1.9)	69.0(1.9)	70.2(1.4)	57.9(3.7)	43.3(6.4)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Using a branching key: Color	1994	45.0(1.3)	42.8(1.8)	47.2(2.0)	46.7(1.5)	35.4(3.6)	44.1(4.2)
	1992	44.4(1.4)	44.2(1.6)	44.6(1.7)	45.5(1.6)	42.3(3.2)	39.7(3.0)
	1990	43.9(1.5)	44.2(2.0)	43.7(1.9)	47.7(1.5)	31.0(3.6)	37.4(3.8)
	1986	40.4(1.6)	40.3(1.8)	40.6(2.1)	42.3(2.1)	31.3(2.3)	40.2(3.4)
	1982	39.3(1.3)	38.1(1.5)	40.4(1.8)	41.8(1.3)	30.9(2.4)	28.3(5.7)
	1977	34.6(1.5)	33.6(1.9)	35.6(1.5)	37.6(1.5)	22.0(3.1)	22.2(4.3)
Reading a pressure gauge	1994	74.0(1.4)	77.1(2.1)	70.9(1.7)	76.3(1.5)	60.2(3.2)	67.1(5.6)
	1992	72.5(1.0)	72.9(1.6)	72.1(1.3)	75.7(1.2)	59.0(2.3)	68.6(2.6)
	1990	71.1(1.4)	74.1(1.9)	67.9(1.8)	75.2(1.4)	58.3(3.6)	60.3(3.8)
	1986	66.7(1.2)	71.6(1.7)	61.8(2.7)	69.9(1.7)	53.7(2.1)	59.8(3.8)
	1982	61.6(1.3)	65.4(2.1)	57.8(1.8)	64.6(1.6)	48.3(3.2)	47.1(3.6)
	1977	57.0(1.9)	62.4(2.0)	51.7(2.4)	59.9(1.9)	43.7(4.2)	44.7(5.3)
Estimating length of a line	1994	62.7(1.1)	64.8(1.7)	60.4(1.9)	64.3(1.3)	52.5(4.1)	58.8(3.2)
	1992	62.8(1.2)	66.0(1.7)	59.8(1.3)	64.0(1.4)	62.1(3.1)	55.3(3.5)
	1990	58.4(1.3)	60.5(1.9)	56.2(1.6)	60.6(1.5)	53.2(4.3)	50.9(4.8)
	1986	62.4(1.4)	65.3(2.0)	59.6(2.4)	64.6(1.7)	55.5(3.6)	53.0(3.3)
	1982	63.6(1.9)	67.3(3.0)	60.2(1.5)	65.4(2.1)	52.3(3.5)	65.2(6.3)
	1977	51.7(1.7)	54.3(1.8)	49.2(2.6)	54.4(1.8)	43.1(3.2)	39.2(5.3)
Rain and corn growth	1994	58.0(1.6)	60.3(2.3)	55.7(1.6)	61.2(2.0)	47.3(4.0)	49.6(3.6)
	1992	56.3(1.3)	57.8(1.9)	54.9(1.6)	58.9(1.6)	49.8(3.3)	47.9(3.1)
	1990	57.3(1.6)	59.6(2.0)	54.9(1.9)	58.0(2.0)	57.0(3.5)	51.3(3.2)
	1986	57.7(1.1)	59.0(2.0)	56.5(1.6)	58.4(1.5)	52.6(2.6)	56.5(5.2)
	1982	60.7(2.2)	62.3(2.4)	59.2(2.6)	63.3(2.5)	47.1(2.9)	53.4(5.2)
	1977	55.5(1.1)	55.2(1.7)	55.8(1.6)	57.6(1.1)	47.9(2.6)	44.2(5.3)
Food shortage: Birth rate	1994	64.8(2.0)	65.8(2.7)	63.7(1.9)	67.4(2.2)	55.8(3.9)	59.1(3.8)
	1992	67.0(1.1)	65.5(1.4)	68.4(1.4)	68.7(1.2)	62.2(2.9)	59.8(3.7)
	1990	64.3(1.4)	62.9(2.0)	65.8(1.5)	67.0(1.6)	58.3(4.4)	56.9(2.9)
	1986	66.4(2.4)	66.1(3.5)	66.7(2.0)	69.5(2.9)	54.5(1.9)	56.6(3.5)
	1982	68.8(1.4)	66.1(2.0)	71.4(1.8)	72.0(1.6)	53.5(3.3)	57.0(4.5)
	1977	70.8(1.1)	69.2(1.5)	72.4(1.5)	74.7(1.0)	54.7(2.7)	49.5(6.3)
Food shortage: Amount of food	1994	91.5(0.9)	90.0(1.3)	93.0(0.8)	94.6(0.7)	79.3(2.5)	87.0(3.4)
	1992	92.6(0.6)	92.2(1.0)	93.0(0.9)	94.8(0.7)	87.0(1.9)	88.3(2.7)
	1990	90.7(1.0)	89.1(1.4)	92.3(1.0)	93.9(0.8)	83.2(3.1)	78.5(4.4)
	1986	89.0(0.7)	89.3(1.1)	88.6(1.1)	91.5(0.8)	78.9(2.8)	82.4(3.4)
	1982	87.0(1.0)	86.8(1.1)	87.1(1.3)	90.0(1.2)	72.5(3.4)	77.6(2.5)
	1977	89.7(0.9)	89.5(1.1)	89.8(1.1)	93.0(0.8)	71.4(3.1)	88.6(3.0)
Food shortage: Markets	1994	61.0(1.5)	59.2(1.9)	62.9(2.1)	64.6(1.6)	48.8(4.4)	51.2(7.7)
	1992	57.7(1.5)	58.5(1.7)	57.0(2.2)	62.8(1.6)	39.2(3.3)	48.6(2.7)
	1990	56.3(1.4)	55.1(2.0)	57.7(1.9)	61.9(1.2)	40.2(5.2)	39.1(2.9)
	1986	59.9(1.6)	62.3(2.1)	57.5(2.0)	64.3(1.8)	40.2(3.1)	52.9(4.4)
	1982	61.5(1.9)	65.4(2.7)	57.8(2.0)	66.5(2.0)	37.7(2.4)	47.7(3.2)
	1977	57.7(1.7)	58.6(2.2)	56.9(2.1)	62.9(1.6)	36.5(3.3)	33.1(6.2)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Food shortage: Weather	1994	54.7(2.3)	55.3(2.8)	54.1(2.4)	57.0(2.9)	41.9(2.7)	46.9(4.1)
	1992	57.5(1.1)	56.7(1.6)	58.3(1.2)	60.6(1.3)	49.2(2.9)	48.5(3.5)
	1990	57.3(1.6)	55.3(1.9)	59.4(1.9)	60.3(1.9)	48.0(2.3)	49.3(5.0)
	1986	56.1(2.3)	57.5(2.6)	54.6(2.7)	58.0(2.7)	48.7(3.9)	49.9(4.5)
	1982	52.1(1.4)	52.3(2.3)	51.8(1.9)	53.9(1.5)	43.2(3.3)	44.3(2.6)
	1977	59.2(1.3)	62.0(1.5)	56.4(1.6)	61.5(1.2)	44.7(2.8)	57.1(5.1)
Predicting snowfall	1994	66.1(1.0)	64.7(1.8)	67.5(1.5)	70.0(1.2)	52.4(3.1)	62.8(4.4)
	1992	64.5(1.3)	65.9(1.6)	63.2(2.0)	68.6(1.4)	52.7(2.8)	53.7(2.7)
	1990	61.8(1.5)	62.5(1.7)	61.1(2.1)	65.7(1.5)	44.7(3.7)	59.0(4.2)
	1986	61.9(2.3)	61.9(2.6)	61.8(2.5)	67.4(2.7)	40.5(3.9)	47.9(4.9)
	1977	47.6(1.6)	47.0(2.2)	48.2(1.6)	49.9(1.8)	39.3(4.7)	34.2(4.6)
Lab balance: Color of rock	1994	83.4(1.3)	81.8(1.3)	85.1(1.9)	87.2(0.9)	68.8(5.9)	75.6(4.4)
	1992	82.5(1.0)	80.5(1.5)	84.3(1.3)	86.5(1.0)	70.9(2.9)	71.6(4.2)
	1990	82.3(1.6)	80.0(2.0)	84.6(1.6)	85.2(1.1)	73.0(6.1)	74.0(2.7)
	1986	81.3(1.2)	78.5(1.7)	84.2(1.8)	85.0(1.4)	70.0(2.6)	66.5(4.4)
	1982	74.9(1.4)	73.9(2.3)	75.8(1.7)	78.7(1.5)	59.5(4.3)	60.0(3.6)
	1977	59.6(1.8)	57.1(1.9)	62.0(2.7)	63.2(1.9)	43.5(3.2)	41.2(5.0)
Lab balance: Accuracy	1994	61.1(1.3)	61.5(1.6)	60.7(2.0)	64.5(1.5)	54.1(2.7)	50.0(6.1)
	1992	61.3(1.4)	61.1(1.8)	61.5(1.9)	64.1(1.7)	55.3(3.1)	48.5(3.6)
	1990	57.4(1.5)	58.1(1.7)	56.8(2.3)	59.0(1.5)	51.5(5.8)	53.9(3.9)
	1986	56.9(2.4)	56.5(2.2)	57.3(3.2)	60.1(2.9)	45.6(2.0)	48.0(8.5)
	1982	56.3(0.8)	58.1(1.6)	54.5(1.5)	58.1(1.1)	46.4(4.1)	52.4(3.1)
	1977	54.4(1.6)	53.9(1.9)	54.9(2.1)	56.7(1.7)	47.6(3.1)	36.4(6.4)
Lab balance: Grams/ounces	1994	40.8(1.3)	41.0(1.9)	40.6(1.6)	41.3(1.4)	43.9(3.9)	36.1(3.6)
	1992	43.9(1.2)	43.3(1.4)	44.5(1.7)	44.8(1.4)	38.5(3.4)	42.2(3.7)
	1990	41.0(1.3)	41.3(1.6)	40.7(2.0)	41.7(1.6)	37.8(3.5)	39.1(3.3)
	1986	43.3(2.2)	41.8(2.2)	44.9(3.0)	44.4(2.8)	40.4(3.0)	37.5(4.1)
	1982	41.3(1.6)	43.6(2.1)	39.1(2.0)	42.2(1.7)	37.2(4.3)	37.5(5.4)
	1977	39.6(1.2)	39.1(1.5)	40.1(1.6)	40.4(1.2)	34.6(2.7)	35.6(5.8)
Human error in measuring time	1994	53.3(1.7)	58.2(1.8)	48.2(1.9)	55.5(2.0)	42.6(2.9)	48.8(5.5)
	1992	52.6(1.4)	56.3(1.9)	49.2(2.0)	55.8(1.7)	43.9(3.2)	43.4(3.3)
	1990	52.7(1.8)	57.7(2.0)	47.4(2.1)	54.0(2.0)	47.2(5.5)	48.3(2.9)
	1986	57.1(2.5)	58.9(2.1)	55.3(3.7)	60.8(3.0)	41.3(4.0)	48.9(3.9)
	1982	48.6(1.7)	54.1(2.1)	43.4(1.8)	49.5(1.7)	43.3(5.2)	42.5(4.7)
	1977	58.5(1.6)	63.2(1.9)	54.1(2.1)	61.4(1.9)	45.0(3.0)	48.0(7.5)
Volume equation	1994	62.3(1.4)	57.9(2.4)	66.8(1.5)	66.3(1.7)	50.6(3.5)	42.8(4.7)
	1992	58.6(1.5)	54.9(1.7)	62.1(2.0)	61.3(1.8)	52.5(2.8)	46.6(3.7)
	1990	57.1(2.2)	53.8(2.7)	60.7(2.4)	60.4(2.1)	50.5(6.8)	41.2(4.1)
	1986	55.3(1.9)	51.9(2.4)	58.7(2.2)	58.4(2.3)	42.8(4.5)	42.5(5.7)
	1982	45.3(1.8)	44.7(2.2)	45.8(1.9)	48.0(2.2)	33.0(3.1)	31.5(2.6)
	1977	33.1(1.7)	30.1(1.5)	35.8(2.7)	36.0(2.0)	19.0(2.1)	21.9(3.5)
Measurement error: Speedometer	1994	33.5(1.0)	40.1(1.8)	26.8(1.6)	32.4(1.0)	38.4(3.3)	35.3(4.6)
	1992	35.8(1.2)	41.2(1.7)	30.8(1.6)	34.4(1.4)	42.6(3.2)	36.7(3.1)
	1990	36.8(1.5)	40.3(2.0)	33.1(1.8)	34.3(1.3)	51.8(6.0)	28.9(4.4)
	1986	34.3(1.0)	40.9(1.8)	27.9(1.5)	31.0(1.3)	45.7(2.2)	41.0(3.1)
	1982	40.7(2.2)	45.2(2.6)	36.6(2.4)	37.5(2.2)	59.4(4.1)	38.8(6.0)
	1977	44.3(1.7)	50.4(2.3)	38.3(2.1)	41.2(2.0)	59.1(1.9)	50.8(5.9)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Measurement error: Tapemeasure	1994	49.7(1.7)	46.3(1.9)	53.1(1.9)	50.7(2.0)	43.5(4.3)	46.4(4.7)
	1992	46.2(0.9)	42.4(1.6)	49.8(1.4)	47.1(1.2)	44.9(3.5)	38.9(2.9)
	1990	46.4(1.4)	44.5(1.7)	48.4(2.1)	47.7(1.2)	42.2(6.0)	40.7(3.7)
	1986	46.3(1.6)	45.5(1.9)	47.1(2.2)	45.8(1.9)	48.7(2.8)	45.7(4.1)
	1982	43.9(1.4)	40.5(2.2)	47.1(1.8)	45.2(1.4)	36.9(2.7)	42.3(5.2)
	1977	46.0(1.2)	43.6(1.3)	48.3(2.0)	47.2(1.5)	40.6(2.7)	42.5(5.1)
Measurement error: Computer	1994	21.3(1.0)	21.2(2.0)	21.4(1.4)	18.2(1.2)	36.3(2.4)	25.6(2.7)
	1992	22.3(1.1)	20.1(1.4)	24.3(1.5)	20.2(1.2)	27.8(2.7)	26.8(3.8)
	1990	24.6(1.2)	24.2(1.6)	25.1(1.4)	20.3(1.2)	41.8(3.5)	27.2(3.3)
	1986	24.5(1.3)	25.6(1.9)	23.5(1.9)	21.4(1.8)	35.8(2.8)	34.9(4.2)
	1982	28.6(1.6)	33.3(2.1)	24.3(2.0)	25.6(1.5)	44.0(3.5)	30.2(5.4)
	1977	31.6(1.7)	33.0(2.3)	30.2(1.8)	28.7(1.8)	42.8(2.9)	41.5(4.9)
Meaning of 20% chance of rain	1994	22.4(1.1)	25.4(1.8)	19.4(1.2)	24.0(1.4)	13.6(2.8)	22.0(6.2)
	1992	23.8(1.3)	24.4(1.3)	23.1(1.9)	26.7(1.6)	15.2(2.5)	15.3(2.8)
	1990	21.5(1.1)	24.7(1.7)	18.0(1.2)	22.2(1.1)	21.5(4.7)	18.2(2.3)
	1986	19.6(0.9)	20.6(1.3)	18.7(1.5)	21.4(1.2)	15.8(3.1)	9.7(2.1)
	1982	15.7(1.3)	19.6(1.7)	12.1(1.7)	16.1(1.7)	14.0(2.5)	14.1(1.5)
	1977	14.2(0.9)	16.0(1.3)	12.5(1.3)	15.6(1.2)	9.2(1.6)	7.1(1.7)
Seasonal rainfall graph	1994	37.3(1.2)	37.7(1.7)	36.9(2.3)	39.4(1.5)	28.8(3.3)	31.9(3.0)
	1992	39.8(1.4)	41.1(1.6)	38.6(1.8)	42.9(1.6)	30.7(3.8)	29.5(3.3)
	1990	38.4(1.7)	42.1(2.2)	34.4(1.7)	42.6(2.0)	23.2(3.2)	32.2(3.4)
	1986	36.0(1.9)	39.5(2.9)	32.6(1.8)	38.0(2.3)	30.5(2.7)	27.0(4.5)
	1982	32.5(1.7)	35.1(2.0)	30.0(2.1)	34.2(1.8)	27.5(3.0)	20.3(4.9)
	1977	32.5(1.7)	35.1(2.0)	30.0(2.1)	34.2(1.8)	27.5(3.0)	20.3(4.9)
Mold growth experiment	1994	23.3(1.2)	24.4(1.4)	22.3(1.6)	24.9(1.3)	14.0(2.2)	19.7(2.6)
	1992	21.9(1.0)	24.6(1.5)	19.4(1.3)	25.6(1.2)	12.7(2.0)	9.7(1.8)
	1990	21.0(1.4)	23.8(1.8)	18.0(1.4)	22.8(1.7)	18.0(3.2)	10.1(2.1)
	1986	20.0(1.3)	20.9(1.6)	19.2(1.5)	21.7(1.5)	14.2(1.4)	15.2(3.4)
	1982	23.4(1.1)	23.8(1.5)	23.1(1.8)	24.7(1.3)	17.1(2.6)	18.7(3.5)
	1977	28.9(1.2)	29.4(1.8)	28.4(1.3)	31.9(1.5)	15.2(2.2)	15.7(4.2)
Invention of telephone	1994	54.9(1.4)	60.9(1.7)	48.8(1.7)	58.1(1.8)	42.3(4.3)	50.6(3.0)
	1992	55.0(1.6)	59.7(2.1)	50.6(2.3)	59.8(2.0)	41.5(2.5)	46.9(2.9)
	1990	52.9(1.7)	59.4(2.2)	46.0(2.0)	58.0(1.7)	36.4(5.3)	44.8(4.7)
	1986	49.6(1.5)	58.4(2.3)	40.9(1.7)	52.6(1.6)	38.6(2.9)	36.7(4.1)
	1982	49.0(1.4)	55.5(1.5)	42.7(1.8)	51.6(1.3)	37.1(4.1)	41.5(4.7)
	1977	49.0(1.4)	55.5(1.5)	42.7(1.8)	51.6(1.3)	37.1(4.1)	41.5(4.7)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 17

Weighted percentage correct by subgroups across assessment years

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Finding cause of a sore throat	1994	88.3(1.0)	84.1(1.6)	92.4(1.1)	91.8(1.0)	81.2(2.7)	76.3(3.5)
	1992	88.7(1.0)	85.6(1.4)	91.7(1.0)	91.5(1.0)	80.6(2.5)	86.8(2.7)
	1990	88.0(1.1)	84.7(1.3)	91.0(1.2)	92.3(0.9)	78.6(3.7)	75.0(4.9)
	1986	87.4(0.6)	83.5(1.3)	91.3(1.3)	90.0(0.6)	77.0(2.5)	82.8(2.1)
	1982	84.4(1.2)	79.6(1.6)	88.7(1.2)	86.6(1.3)	74.3(2.8)	74.7(3.8)
	1977	87.2(0.7)	83.9(1.2)	90.2(1.0)	88.4(0.8)	78.9(2.8)	88.2(2.4)
Plants bend toward light	1994	73.2(1.6)	73.9(1.8)	72.5(2.1)	80.5(1.3)	50.5(3.4)	49.3(5.8)
	1992	72.3(1.4)	74.9(1.7)	69.6(1.5)	77.4(1.2)	53.7(4.0)	64.0(6.3)
	1990	67.1(1.4)	71.5(1.6)	63.2(1.9)	73.5(1.1)	42.5(4.0)	55.8(4.5)
	1986	67.9(1.4)	70.3(2.1)	65.4(1.9)	73.5(1.2)	43.7(4.7)	58.2(4.6)
	1982	68.8(1.3)	71.4(2.0)	66.1(1.9)	73.6(1.2)	47.1(3.1)	47.6(3.6)
Observing a sealed aquarium	1994	78.3(1.2)	78.9(1.3)	77.9(1.6)	82.0(1.2)	71.4(2.3)	65.7(4.4)
	1992	75.3(1.1)	75.7(1.8)	74.9(1.5)	78.3(1.3)	65.5(3.5)	69.4(4.0)
	1990	75.3(1.3)	78.1(1.5)	72.8(1.8)	79.0(1.0)	62.8(4.3)	68.3(4.7)
	1986	77.6(1.3)	79.2(1.8)	76.1(1.8)	79.2(1.5)	74.8(4.0)	69.3(5.2)
	1982	79.4(1.4)	80.0(1.6)	78.9(1.7)	81.2(1.7)	71.8(3.7)	73.1(3.5)
	1977	83.1(0.9)	83.0(1.3)	83.1(1.1)	84.8(0.9)	75.5(1.9)	69.6(3.9)
Tissues and cells	1994	67.6(1.3)	70.4(1.6)	65.0(2.0)	70.1(1.4)	60.9(2.6)	55.7(3.9)
	1992	65.7(1.5)	66.3(1.8)	65.1(1.9)	67.5(1.7)	58.3(4.8)	61.3(5.6)
	1990	65.7(1.4)	69.5(1.8)	62.4(1.8)	67.1(1.6)	58.6(3.2)	67.5(5.2)
	1986	68.3(1.5)	69.6(1.8)	67.1(1.7)	70.7(1.8)	59.8(3.3)	58.0(4.9)
	1982	63.7(1.5)	64.3(1.9)	63.1(2.0)	65.8(1.7)	54.1(2.8)	57.0(6.1)
	1977	65.2(1.2)	67.0(1.7)	63.5(1.4)	66.9(1.4)	54.8(2.1)	60.3(3.6)
Melting crushed ice	1994	60.9(1.6)	65.3(1.9)	56.6(2.1)	67.9(1.7)	36.4(2.6)	49.6(3.5)
	1992	64.3(1.4)	70.8(1.7)	57.5(1.9)	69.4(1.5)	39.1(3.9)	55.7(5.1)
	1990	64.6(1.9)	70.3(2.2)	58.8(2.2)	70.3(1.7)	41.2(6.0)	52.9(6.7)
	1986	59.3(1.2)	66.3(1.4)	52.8(2.0)	63.9(1.3)	39.6(3.7)	41.6(5.1)
	1982	61.6(1.4)	69.1(1.3)	54.8(2.0)	66.9(1.4)	35.5(3.0)	37.7(4.5)
	1977	61.2(1.3)	70.5(1.8)	52.2(1.5)	65.6(1.1)	31.4(2.5)	51.1(4.8)
Function of red blood cells	1994	57.2(1.6)	61.3(1.9)	53.6(2.1)	60.3(1.7)	47.0(3.6)	47.4(3.8)
	1992	60.5(1.1)	61.7(1.7)	59.4(1.8)	63.0(1.3)	52.7(3.8)	53.5(4.4)
	1990	64.4(1.2)	68.8(1.6)	60.6(1.7)	66.5(1.3)	55.0(3.4)	62.7(6.2)
	1986	63.8(1.4)	67.0(1.5)	60.7(2.6)	63.5(1.6)	67.2(4.1)	60.2(5.2)
	1982	64.5(2.0)	69.2(1.9)	60.2(2.6)	66.1(1.7)	58.9(4.9)	56.0(8.9)
	1977	65.9(1.2)	69.2(1.7)	62.7(1.8)	66.2(1.3)	60.3(3.6)	67.4(5.5)
Water temperature for swimming	1994	43.7(1.8)	49.5(2.3)	37.8(2.0)	49.3(2.1)	18.7(1.5)	39.6(5.6)
	1992	46.0(1.3)	53.9(1.9)	37.6(1.5)	51.2(1.5)	27.0(3.5)	26.4(3.7)
	1990	44.5(1.7)	51.3(1.8)	37.7(1.9)	49.4(2.0)	25.4(3.3)	26.4(4.1)
	1986	46.8(1.2)	54.5(1.9)	39.8(1.6)	51.7(1.3)	28.8(2.6)	24.5(3.4)
	1977	48.1(1.5)	58.6(1.9)	37.8(1.8)	52.2(1.6)	22.7(3.4)	41.2(6.2)
Sulfur dioxide and acid rain	1994	67.0(1.4)	74.7(1.8)	59.3(1.9)	73.1(1.5)	48.8(4.4)	51.0(3.5)
	1992	71.1(1.0)	76.5(1.5)	65.5(1.3)	75.6(1.1)	51.1(4.4)	60.6(5.9)
	1990	71.1(1.6)	77.3(1.9)	64.9(1.8)	76.4(1.2)	53.6(4.1)	51.2(***)
	1986	65.2(1.0)	72.2(1.7)	58.8(1.6)	69.1(1.2)	51.4(3.4)	44.4(4.7)
	1982	44.7(1.5)	56.5(2.2)	34.2(1.9)	47.9(1.6)	26.1(2.9)	38.0(4.5)
	1977	31.0(2.0)	39.7(2.2)	22.3(1.9)	33.5(2.3)	17.9(2.3)	18.1(3.6)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Seed germination	1994	28.6(1.4)	31.6(2.0)	25.8(2.0)	30.5(1.8)	26.1(3.8)	18.0(3.7)
	1992	31.3(1.1)	37.6(1.5)	25.1(1.5)	32.3(1.1)	29.3(3.1)	26.0(3.5)
	1990	34.1(1.2)	37.3(1.6)	31.2(1.5)	35.3(1.6)	29.1(2.7)	30.3(4.7)
	1986	38.8(1.6)	43.6(2.4)	34.0(1.4)	40.2(1.9)	37.6(3.0)	27.5(3.8)
	1982	33.7(1.3)	36.4(1.7)	30.9(2.1)	35.1(1.4)	27.7(3.6)	25.8(4.9)
Efficient use of grain as food	1994	25.4(1.5)	28.3(2.1)	22.7(1.4)	27.0(1.9)	21.3(2.9)	19.5(4.6)
	1992	26.4(1.2)	28.6(1.6)	24.2(1.8)	29.2(1.4)	17.8(1.9)	19.7(3.9)
	1990	22.9(1.0)	24.8(1.4)	21.3(1.4)	25.4(1.1)	15.0(2.2)	17.8(3.7)
	1986	25.6(1.4)	27.9(2.1)	23.2(1.7)	28.0(1.7)	13.3(1.8)	26.1(5.1)
	1982	29.7(1.9)	33.3(2.2)	26.3(2.1)	30.8(2.2)	25.0(2.1)	31.2(8.8)
	1977	32.0(0.9)	35.6(1.6)	28.5(1.0)	33.6(1.1)	23.4(2.8)	25.2(5.3)
World population growth	1994	18.6(1.2)	26.3(1.6)	11.5(1.2)	22.6(1.3)	5.9(1.5)	8.9(1.8)
	1992	17.7(1.1)	25.2(1.9)	10.1(0.9)	21.0(1.4)	6.2(1.2)	10.2(2.5)
	1990	17.8(1.0)	24.3(1.6)	12.1(1.1)	20.6(1.1)	10.3(1.9)	10.3(2.3)
	1986	19.3(1.7)	23.9(2.5)	14.7(1.5)	21.2(2.0)	10.4(2.0)	15.0(3.8)
	1982	18.9(1.0)	25.1(1.6)	13.1(1.1)	21.4(1.2)	8.4(1.9)	6.6(1.7)
	1977	22.4(1.2)	29.5(1.7)	15.4(1.3)	24.8(1.2)	9.1(1.6)	10.9(4.1)
Saving resources: Insulation	1994	77.4(1.1)	79.5(1.3)	75.6(1.4)	82.1(1.1)	65.9(3.5)	62.7(3.2)
	1992	77.1(1.0)	80.2(1.4)	74.1(1.7)	81.2(0.9)	68.9(2.8)	63.1(4.0)
	1990	74.0(1.2)	76.6(1.5)	71.8(1.4)	75.7(1.4)	71.2(2.4)	66.5(4.1)
	1986	82.9(1.2)	83.7(1.8)	82.1(1.6)	83.1(1.5)	84.0(2.6)	80.3(2.8)
	1982	90.0(1.0)	90.7(1.5)	89.2(1.2)	91.2(1.2)	84.0(2.1)	90.9(2.5)
	1977	94.2(0.5)	95.2(0.7)	93.2(0.7)	95.8(0.5)	86.8(1.8)	84.1(3.1)
Saving resources: Planting	1994	75.6(1.1)	76.8(1.6)	74.6(1.6)	79.8(1.1)	64.4(3.2)	60.5(4.9)
	1992	76.2(1.1)	77.2(1.4)	75.2(1.7)	78.3(1.2)	68.6(3.8)	73.7(3.5)
	1990	76.9(1.2)	79.8(1.4)	74.3(1.9)	80.4(1.3)	64.2(3.2)	70.0(4.5)
	1986	71.1(1.6)	74.5(1.9)	67.8(2.0)	74.7(2.1)	55.7(4.1)	62.3(4.7)
	1982	64.0(1.0)	64.3(1.6)	63.7(1.8)	66.9(1.2)	49.5(3.0)	57.5(6.9)
	1977	79.8(0.8)	82.6(0.9)	77.1(1.2)	82.5(0.7)	61.7(2.5)	77.3(2.9)
Saving resources: Throwaways	1994	74.8(1.2)	74.0(1.5)	75.7(1.7)	81.0(1.2)	53.0(3.3)	61.6(3.7)
	1992	74.6(1.2)	73.9(1.6)	75.4(1.7)	80.9(1.0)	58.2(4.2)	57.0(5.6)
	1990	73.0(1.2)	74.1(1.3)	72.0(1.7)	77.4(1.1)	58.1(3.0)	64.7(4.9)
	1986	67.2(1.3)	69.9(1.8)	64.4(1.4)	70.4(1.6)	55.3(2.4)	55.1(3.6)
	1982	68.7(1.5)	69.9(2.2)	67.5(2.0)	72.0(1.6)	50.6(1.7)	58.8(3.7)
	1977	72.9(0.8)	76.5(1.2)	69.4(1.0)	76.3(0.9)	52.8(2.7)	64.5(4.7)
Saving resources: Lawns	1994	68.5(1.5)	70.6(1.8)	66.6(1.8)	74.4(1.5)	50.6(2.7)	49.4(4.9)
	1992	69.2(1.4)	71.7(1.9)	66.7(1.9)	73.5(1.6)	53.4(3.3)	65.6(5.8)
	1990	67.8(1.6)	68.6(1.8)	67.2(2.1)	73.3(1.2)	47.8(3.9)	62.9(3.6)
	1986	69.4(1.6)	69.5(1.9)	69.3(1.9)	73.6(1.7)	50.6(3.6)	60.5(8.1)
	1982	71.0(1.3)	74.4(1.6)	67.4(1.6)	74.5(1.4)	53.3(3.1)	64.5(6.1)
	1977	63.4(1.4)	65.6(2.0)	61.2(1.8)	66.1(1.5)	45.3(3.2)	60.8(5.9)
Plate tectonics: Mountains	1994	76.0(1.4)	78.4(1.6)	74.0(1.7)	81.6(1.5)	58.1(4.1)	62.4(3.1)
	1992	74.9(1.5)	79.4(2.1)	70.4(1.8)	79.1(1.4)	58.9(4.1)	65.5(6.3)
	1990	73.8(1.6)	76.5(1.6)	71.4(2.2)	79.4(1.4)	51.2(3.5)	66.0(5.6)
	1986	72.5(1.3)	74.5(2.0)	70.5(1.5)	77.6(1.5)	49.8(3.1)	59.0(8.7)
	1982	69.4(1.5)	72.3(1.8)	66.4(2.3)	72.8(1.6)	50.1(3.3)	63.7(4.3)
	1977	79.1(1.0)	80.4(1.3)	77.8(1.3)	81.8(0.9)	59.4(2.6)	78.1(5.1)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Plate tectonics: Weather	1994	77.9(1.3)	80.3(1.5)	75.9(1.8)	84.1(1.0)	59.7(2.8)	59.1(5.4)
	1992	77.0(1.2)	80.3(1.5)	73.7(1.4)	80.9(1.2)	66.6(3.7)	65.9(4.7)
	1990	76.8(1.5)	78.5(1.6)	75.3(2.1)	82.9(1.2)	58.6(4.7)	60.0(4.5)
	1986	73.9(1.6)	75.1(2.0)	72.6(1.6)	78.3(1.5)	55.1(4.9)	63.8(7.3)
	1982	72.0(1.3)	75.8(1.6)	68.1(1.7)	75.7(1.6)	57.7(2.3)	54.1(4.1)
	1977	65.6(1.2)	69.1(1.5)	62.2(1.7)	69.6(1.3)	41.3(2.0)	53.0(3.1)
Plate tectonics: Earthquakes	1994	90.8(0.9)	90.7(1.2)	90.9(1.1)	94.2(0.7)	83.4(2.6)	77.7(5.0)
	1992	90.9(0.7)	91.3(0.9)	90.5(1.1)	93.2(0.7)	83.2(2.1)	86.4(3.0)
	1990	90.3(1.0)	88.9(1.5)	91.5(1.0)	92.7(0.8)	80.7(4.6)	88.4(2.4)
	1986	88.8(0.9)	89.9(1.7)	87.8(1.2)	92.0(0.9)	72.7(3.0)	84.8(6.0)
	1982	89.1(0.9)	89.4(1.3)	88.9(1.1)	91.1(0.9)	78.5(2.4)	84.5(4.5)
	1977	91.2(0.6)	91.9(0.8)	90.6(0.8)	93.3(0.5)	77.8(2.1)	85.1(4.8)
Plate tectonics: Continents	1994	84.9(1.3)	86.2(1.7)	83.7(1.3)	89.9(1.3)	70.3(3.9)	71.9(5.6)
	1992	84.9(1.1)	87.8(1.1)	82.0(1.5)	89.1(0.9)	69.6(3.8)	79.1(4.0)
	1990	83.2(1.3)	83.4(1.5)	83.1(1.8)	88.5(0.9)	64.1(3.3)	72.8(4.2)
	1986	80.9(1.3)	82.6(1.8)	79.3(1.5)	85.8(1.4)	61.1(3.9)	64.9(6.1)
	1982	76.7(1.6)	78.7(1.9)	74.7(2.3)	81.2(1.5)	54.5(3.8)	60.9(5.9)
	1977	80.9(1.3)	80.8(1.3)	81.0(1.5)	85.8(0.9)	54.0(3.0)	59.5(3.7)
Plate tectonics: Moon	1994	84.9(1.2)	85.2(1.3)	84.7(1.3)	90.0(1.0)	69.8(3.3)	67.8(4.7)
	1992	84.9(1.2)	86.5(1.4)	83.2(1.7)	88.3(1.1)	73.5(4.3)	78.8(5.1)
	1990	83.2(1.4)	82.1(1.6)	84.1(1.7)	88.5(1.0)	63.6(3.8)	75.8(4.1)
	1986	81.0(1.6)	81.0(2.4)	81.0(1.4)	85.1(1.3)	61.6(6.8)	76.5(5.5)
	1982	84.1(1.1)	84.1(1.4)	84.1(1.4)	87.6(1.0)	66.6(2.9)	73.7(3.6)
	1977	73.3(1.0)	72.1(1.3)	74.5(1.3)	76.4(1.2)	55.7(2.4)	59.4(3.4)
Components of solar system	1994	79.2(1.1)	84.3(1.5)	74.6(1.5)	80.6(1.2)	73.8(3.5)	76.4(4.5)
	1992	77.9(1.4)	82.4(1.5)	73.4(1.8)	81.0(1.4)	61.6(3.7)	80.7(3.8)
	1990	72.4(1.3)	76.0(1.5)	69.3(1.5)	74.4(1.5)	63.7(2.9)	70.5(3.2)
	1986	72.7(1.8)	79.9(1.7)	65.5(2.6)	75.8(2.0)	57.8(4.3)	68.5(3.4)
	1982	69.7(1.5)	75.2(1.7)	64.5(1.7)	73.2(1.6)	53.3(4.0)	55.3(4.9)
	1977	78.3(0.9)	83.1(1.1)	73.7(1.3)	80.7(1.0)	62.9(2.1)	76.9(3.4)
Weather: Wind speed	1994	93.2(0.8)	91.1(1.1)	95.3(0.8)	96.1(0.5)	84.8(2.2)	85.3(3.8)
	1992	93.2(0.8)	92.6(1.1)	93.7(1.2)	95.6(0.4)	85.2(2.9)	90.7(3.7)
	1990	92.9(1.0)	91.5(1.4)	94.2(0.9)	95.4(0.7)	85.7(3.2)	83.0(4.9)
	1986	92.8(1.2)	91.1(1.6)	94.5(1.2)	94.8(0.9)	82.4(5.5)	89.6(2.3)
	1982	84.7(1.2)	85.1(1.3)	84.4(1.7)	87.6(1.1)	68.4(2.5)	79.5(4.4)
	1977	94.0(0.7)	94.7(0.7)	93.2(0.9)	95.3(0.6)	85.7(2.6)	90.6(2.4)
Weather: Sunrise	1994	61.1(1.7)	56.5(2.4)	65.5(1.9)	63.3(2.0)	56.1(3.5)	45.2(5.1)
	1992	63.1(1.5)	62.2(2.0)	64.0(2.0)	63.2(1.5)	62.1(2.1)	67.8(5.2)
	1990	63.1(1.2)	59.7(1.6)	66.1(1.6)	65.8(1.1)	54.5(4.1)	54.4(3.9)
	1986	61.7(1.3)	62.9(1.7)	60.5(1.9)	63.5(1.4)	51.5(2.6)	54.7(3.8)
	1982	50.7(1.6)	51.3(1.7)	50.1(2.0)	50.3(2.0)	51.9(2.7)	55.1(5.7)
	1977	56.2(1.4)	53.0(1.6)	59.4(1.8)	57.4(1.5)	48.1(3.1)	49.5(4.4)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Weather: Rainfall	1994	84.8(1.2)	85.6(1.7)	84.4(1.3)	89.0(1.0)	77.0(2.1)	65.4(6.6)
	1992	85.4(1.0)	85.2(1.3)	85.5(1.4)	89.3(0.8)	69.2(3.4)	84.0(4.0)
	1990	84.0(1.5)	84.7(1.7)	83.4(1.7)	88.4(1.0)	73.9(3.7)	67.1(5.9)
	1986	84.9(1.0)	85.9(1.4)	83.9(1.3)	87.8(0.9)	74.3(3.4)	75.7(4.5)
	1982	82.2(1.4)	83.1(1.5)	81.4(1.8)	86.7(1.2)	58.2(2.1)	73.3(8.2)
	1977	89.9(0.7)	90.8(0.9)	89.1(0.8)	92.3(0.6)	75.7(3.1)	84.0(3.1)
Weather: Humidity	1994	89.7(0.9)	88.5(1.6)	90.9(0.9)	92.1(0.8)	81.9(2.4)	80.9(3.7)
	1992	90.4(0.8)	89.2(1.1)	91.6(1.0)	92.9(0.8)	82.9(2.8)	86.4(2.5)
	1990	90.1(0.8)	88.5(1.1)	91.6(1.0)	93.2(0.7)	81.3(3.0)	81.2(3.4)
	1986	90.4(0.8)	88.6(1.0)	92.1(1.0)	92.0(1.0)	83.6(3.0)	82.8(2.4)
	1982	78.5(1.2)	80.9(1.6)	76.3(1.6)	82.1(1.1)	62.8(2.3)	62.9(4.5)
	1977	89.4(0.6)	89.1(0.9)	89.7(0.9)	91.2(0.7)	80.2(1.9)	78.2(3.9)
Weather: First day of spring	1994	67.4(1.6)	68.4(2.1)	66.5(1.8)	71.3(1.7)	55.1(3.8)	53.8(4.1)
	1992	71.8(1.3)	73.8(1.8)	69.8(1.7)	73.4(1.4)	64.8(4.9)	72.6(3.6)
	1990	71.0(1.3)	70.4(1.6)	71.5(1.7)	75.6(1.1)	55.4(3.6)	58.4(4.4)
	1986	68.1(1.3)	70.3(1.6)	65.9(1.8)	71.0(1.6)	57.0(5.3)	58.8(4.7)
	1982	62.6(1.4)	64.0(1.9)	61.3(1.8)	64.3(1.6)	57.9(2.3)	52.6(4.5)
	1977	68.2(1.0)	69.1(1.5)	67.4(1.6)	70.7(1.0)	56.4(2.4)	51.5(4.9)
Weather: Average temperature	1994	69.4(1.2)	69.9(1.8)	69.1(1.7)	72.6(1.5)	61.1(2.6)	59.1(4.5)
	1992	67.4(1.3)	67.5(1.8)	67.2(1.6)	71.5(1.4)	57.4(3.3)	57.8(5.4)
	1990	65.6(1.5)	65.8(2.2)	65.4(1.8)	68.5(1.4)	61.1(4.2)	52.7(5.1)
	1986	64.8(1.4)	65.9(1.9)	63.6(1.6)	67.0(1.7)	58.5(3.3)	51.7(2.3)
	1982	62.5(1.2)	65.3(1.0)	59.8(1.9)	65.0(1.4)	48.2(2.8)	54.6(3.5)
	1977	71.8(0.9)	73.3(1.3)	70.3(1.2)	74.0(0.9)	59.8(3.9)	61.2(4.4)
Communicating on the moon	1994	72.6(1.3)	81.6(1.7)	64.0(1.7)	75.7(1.2)	65.2(3.3)	64.0(4.3)
	1992	70.7(1.6)	79.8(1.7)	61.5(2.3)	72.1(1.8)	65.1(3.1)	70.1(3.2)
	1990	68.0(1.1)	78.1(1.3)	59.0(1.5)	70.3(1.2)	58.3(3.0)	71.8(4.3)
	1986	69.8(1.3)	78.7(1.3)	60.7(1.9)	71.3(1.3)	62.2(3.4)	66.9(5.1)
	1982	68.0(1.8)	75.8(2.5)	59.8(2.1)	70.5(1.9)	50.2(3.6)	70.9(5.9)
	1977	69.5(1.2)	78.6(1.3)	60.4(1.7)	71.5(1.1)	57.2(3.1)	59.0(8.7)
Half-life	1994	66.4(1.6)	68.5(1.9)	64.4(1.8)	69.3(1.7)	57.5(3.2)	56.4(3.5)
	1992	67.9(1.3)	70.2(1.9)	65.7(2.1)	71.0(1.7)	56.9(4.9)	63.9(4.8)
	1990	66.1(1.4)	68.1(1.3)	64.3(2.0)	68.4(1.5)	56.8(4.3)	63.5(2.9)
	1986	66.5(1.5)	68.2(1.9)	64.7(1.8)	67.6(1.4)	60.8(5.9)	66.2(2.9)
	1982	58.8(1.8)	62.8(2.1)	55.2(2.2)	58.8(1.9)	59.3(4.6)	66.0(6.9)
	1977	59.8(1.3)	62.2(1.6)	57.4(1.8)	60.8(1.6)	51.9(2.8)	55.8(5.9)
Speed of light and sound	1994	33.2(1.6)	37.6(2.2)	28.9(2.0)	36.7(2.1)	23.2(3.2)	22.9(4.5)
	1992	33.0(1.4)	38.2(1.7)	27.9(1.9)	37.7(1.5)	17.3(2.7)	17.7(4.7)
	1990	30.8(1.2)	36.3(1.8)	25.9(1.7)	33.8(1.2)	23.0(3.3)	19.0(3.1)
	1986	30.4(1.7)	38.0(2.8)	22.7(1.3)	33.0(2.1)	16.6(2.5)	21.5(5.8)
	1982	31.1(1.2)	38.1(1.3)	24.3(1.4)	33.9(1.3)	15.8(2.0)	18.2(4.3)
	1977	31.1(1.2)	38.1(1.3)	24.3(1.4)	33.9(1.3)	15.8(2.0)	18.2(4.3)
Angle of reflection	1994	64.1(2.1)	74.4(1.6)	54.4(2.8)	68.4(2.2)	49.4(3.8)	51.8(4.3)
	1992	62.2(1.5)	72.5(1.5)	51.9(1.8)	64.7(1.6)	51.9(4.1)	59.6(4.6)
	1990	58.6(1.2)	70.6(1.6)	47.9(1.7)	61.3(1.3)	51.4(3.5)	47.7(3.6)
	1986	58.1(2.0)	68.4(2.3)	47.8(2.6)	59.6(2.3)	49.6(5.1)	56.6(4.2)
	1982	57.8(1.7)	67.0(2.3)	49.6(2.1)	60.4(2.0)	44.3(3.2)	48.9(2.9)
	1977	55.7(1.1)	66.2(1.4)	45.5(1.5)	57.8(1.3)	43.6(2.4)	48.0(3.0)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Earth's crust: Oldest layers	1994	53.9(1.4)	53.2(1.9)	54.6(2.0)	57.9(1.3)	41.9(3.5)	39.9(5.0)
	1992	51.7(1.3)	52.1(2.0)	51.3(1.7)	53.9(1.6)	44.1(3.5)	47.3(4.9)
	1990	54.2(1.3)	55.0(1.8)	53.5(1.6)	58.1(1.2)	44.0(4.1)	43.2(4.3)
	1986	51.1(2.3)	48.1(2.5)	54.2(2.8)	53.6(2.6)	37.9(4.3)	52.0(3.4)
	1977	47.6(1.4)	45.1(1.7)	50.2(1.8)	49.9(1.5)	32.9(2.3)	46.1(5.6)
Earth's crust: Curved layers	1994	48.4(1.8)	54.5(2.2)	42.9(2.2)	50.4(2.5)	39.3(3.0)	45.3(3.8)
	1992	50.6(1.4)	56.4(1.6)	44.9(1.8)	52.0(1.6)	38.7(2.9)	60.9(5.4)
	1990	48.3(1.3)	55.4(1.8)	42.0(1.7)	50.4(1.3)	39.2(3.3)	47.1(4.6)
	1986	50.8(1.3)	59.3(2.1)	42.2(2.0)	51.0(1.4)	47.6(2.7)	55.1(4.8)
	1977	48.7(1.4)	56.1(1.5)	41.4(1.7)	49.7(1.6)	41.4(2.4)	49.8(3.8)
Discovery: Computers	1994	69.9(1.2)	70.4(1.8)	69.3(1.7)	73.5(1.3)	62.1(2.9)	55.0(4.6)
	1992	69.8(1.2)	73.0(1.7)	66.5(2.1)	71.9(1.4)	61.8(3.6)	66.6(3.7)
	1990	70.8(1.3)	74.9(1.6)	67.1(1.9)	72.7(1.3)	63.8(2.9)	68.6(4.8)
	1986	72.5(1.2)	75.9(1.6)	69.0(1.4)	75.0(1.4)	63.5(4.4)	66.2(3.6)
	1982	67.3(1.3)	72.4(1.2)	62.7(2.0)	69.8(1.5)	55.5(2.8)	56.7(4.2)
	1977	69.4(1.4)	76.8(1.5)	61.8(2.0)	70.0(1.6)	63.3(2.9)	72.9(3.6)
Discovery: Space	1994	55.4(1.3)	55.9(1.4)	54.9(1.7)	57.5(1.4)	51.4(3.1)	44.5(3.9)
	1992	58.2(1.1)	58.0(1.8)	58.4(1.7)	59.8(1.4)	52.8(4.4)	54.5(6.2)
	1990	57.1(1.5)	58.5(2.2)	55.8(1.7)	58.3(1.6)	55.6(2.7)	48.8(4.5)
	1986	52.9(1.7)	54.9(2.2)	51.0(2.5)	53.2(1.8)	52.5(3.1)	56.3(5.2)
	1982	46.7(1.7)	47.3(1.9)	46.2(2.3)	47.3(2.0)	43.0(3.0)	51.1(5.2)
	1977	56.6(1.7)	60.1(1.4)	53.0(2.8)	57.9(2.0)	50.8(3.1)	45.3(4.8)
Discovery: Plastics	1994	66.3(1.5)	67.6(2.0)	64.9(2.1)	70.2(1.4)	55.8(4.4)	51.3(4.6)
	1992	67.8(1.3)	70.8(1.7)	64.7(1.8)	70.8(1.3)	58.9(4.9)	59.5(5.8)
	1990	66.8(1.5)	69.7(1.9)	64.2(1.9)	71.4(1.5)	53.7(3.0)	57.8(4.6)
	1986	68.0(1.5)	67.8(1.8)	68.2(2.0)	71.4(1.9)	52.4(3.9)	60.3(4.4)
	1982	68.4(1.5)	70.8(2.1)	66.2(1.9)	71.2(1.6)	54.8(3.1)	61.6(6.0)
	1977	69.0(1.4)	69.7(1.7)	68.3(2.0)	71.9(1.4)	52.9(3.5)	62.8(6.2)
Discovery: Lasers	1994	88.8(1.1)	87.6(1.3)	90.0(1.3)	92.8(0.7)	78.6(2.9)	72.7(6.8)
	1992	88.0(0.8)	88.2(1.1)	87.8(0.8)	90.9(0.7)	78.2(3.5)	83.6(5.7)
	1990	85.9(1.3)	87.1(1.4)	84.9(1.7)	89.5(1.1)	78.9(3.3)	76.3(3.5)
	1986	86.7(0.8)	87.6(1.7)	85.9(0.9)	90.0(0.9)	72.5(3.3)	82.3(2.6)
	1982	77.6(1.3)	79.9(1.7)	75.6(1.7)	81.4(1.4)	58.0(2.6)	65.3(3.5)
	1977	64.3(1.3)	67.7(2.0)	60.9(1.5)	66.1(1.4)	51.2(3.5)	69.1(4.9)
Effect of clearing forests	1994	42.7(1.6)	48.2(2.2)	37.7(1.6)	48.4(1.8)	29.3(2.9)	23.8(3.6)
	1992	40.3(1.2)	42.8(1.8)	37.8(1.5)	45.9(1.6)	24.8(2.7)	21.3(4.5)
	1990	39.6(1.6)	43.7(2.1)	35.9(1.8)	45.0(1.4)	22.4(3.2)	22.9(4.7)
	1986	46.1(1.5)	52.3(2.5)	39.7(1.8)	50.5(1.7)	27.9(2.3)	34.9(4.7)
	1982	53.0(1.4)	58.6(2.0)	47.6(1.4)	58.9(1.6)	28.2(2.1)	24.7(5.9)
	1977	60.2(1.4)	64.5(1.5)	55.9(1.9)	66.1(1.2)	31.8(3.7)	24.9(7.1)
Cause of seasons	1994	30.7(1.0)	35.7(1.5)	26.1(1.3)	33.3(1.1)	23.7(2.3)	19.9(4.9)
	1992	29.7(1.2)	36.5(1.6)	22.8(1.6)	31.9(1.8)	18.9(2.7)	32.0(3.6)
	1990	26.2(1.4)	30.9(1.7)	21.9(1.6)	27.8(1.5)	20.0(3.2)	22.3(3.3)
	1986	26.5(1.7)	32.9(2.6)	20.0(1.4)	28.3(1.9)	15.7(3.0)	25.5(3.5)
	1977	26.9(0.9)	30.7(1.3)	23.2(1.4)	28.7(1.1)	16.1(1.8)	23.9(5.0)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Product Z: Arthritis	1994	76.1(1.3)	74.2(1.7)	78.3(1.3)	81.5(1.3)	60.6(3.9)	66.5(4.3)
	1992	76.1(1.2)	73.5(1.6)	78.8(1.3)	80.5(1.2)	57.2(3.1)	70.7(3.7)
	1990	76.9(1.5)	76.2(1.9)	77.6(1.4)	82.9(1.2)	59.4(4.7)	57.8(5.0)
	1986	76.2(1.3)	76.1(1.8)	76.4(1.5)	81.2(1.4)	58.0(3.1)	60.9(6.9)
	1982	69.4(1.1)	68.1(1.7)	70.8(1.5)	75.4(1.0)	41.3(3.1)	46.5(3.2)
	1977	76.7(1.1)	73.2(1.9)	80.2(1.2)	81.5(1.0)	47.5(3.1)	62.9(4.2)
Product Z: Harm	1994	86.4(1.1)	85.4(1.4)	88.0(1.5)	89.7(1.1)	76.4(3.1)	79.3(5.4)
	1992	89.0(0.8)	87.0(1.3)	91.2(0.9)	91.5(0.7)	79.9(2.9)	80.9(3.2)
	1990	88.8(0.9)	87.7(1.2)	89.9(1.2)	91.9(0.7)	76.7(2.9)	83.5(3.6)
	1986	88.6(0.8)	88.2(1.2)	89.0(1.1)	90.3(1.0)	83.0(2.4)	79.3(3.2)
	1982	90.8(0.9)	88.3(1.4)	93.3(1.1)	92.8(0.8)	79.1(3.2)	89.5(2.5)
	1977	87.9(0.9)	86.6(1.4)	89.3(0.8)	90.8(0.8)	70.0(2.8)	82.1(3.5)
Product Z: Pain relief	1994	90.6(0.8)	89.4(1.2)	92.1(0.9)	92.4(0.9)	87.2(1.8)	85.3(2.3)
	1992	91.6(0.8)	90.1(1.1)	93.2(1.0)	93.7(0.7)	83.7(3.3)	85.7(3.2)
	1990	91.9(0.8)	89.4(1.2)	94.3(0.7)	93.2(0.6)	89.2(1.6)	81.2(6.1)
	1986	93.0(0.6)	91.5(1.0)	94.3(1.1)	94.2(0.6)	90.4(1.6)	81.9(6.2)
	1982	90.9(0.9)	88.5(1.2)	93.3(1.0)	93.3(0.6)	79.7(3.1)	82.6(5.4)
	1977	91.0(0.6)	88.3(0.9)	93.7(0.7)	93.5(0.4)	74.8(2.8)	87.3(2.8)
Product Z: Feel better	1994	90.2(0.8)	89.3(1.0)	91.6(1.1)	93.2(1.0)	83.5(2.2)	81.1(4.1)
	1992	91.7(0.7)	89.9(1.0)	93.6(0.9)	93.3(0.7)	87.0(2.3)	84.5(3.2)
	1990	91.3(0.9)	89.8(0.9)	92.8(1.2)	93.8(0.6)	81.2(2.6)	87.3(4.9)
	1986	90.5(0.7)	88.7(1.3)	92.2(0.9)	92.8(0.8)	82.6(1.9)	79.8(3.9)
	1982	91.4(0.7)	89.4(1.1)	93.5(0.8)	94.2(0.7)	76.8(2.6)	87.5(2.8)
	1977	89.0(0.8)	87.3(1.3)	90.7(0.9)	92.2(0.7)	69.1(2.7)	80.0(2.9)
Reading a pressure gauge	1994	84.1(0.9)	84.9(1.3)	83.5(1.1)	86.5(1.0)	74.4(3.1)	83.3(3.0)
	1992	85.0(0.8)	87.8(1.2)	82.2(1.1)	87.9(0.8)	74.9(3.0)	83.5(3.6)
	1990	80.5(1.0)	81.6(1.3)	79.6(1.3)	84.2(0.9)	68.4(2.9)	71.2(4.7)
	1986	80.7(1.1)	83.5(1.5)	77.8(1.5)	84.6(1.1)	62.8(4.5)	72.3(2.9)
	1982	78.9(1.2)	83.1(1.5)	74.6(1.7)	82.2(1.3)	62.4(3.8)	69.4(4.6)
	1977	75.0(0.9)	79.1(1.1)	71.0(1.3)	78.8(0.8)	53.4(3.2)	57.3(3.0)
Rain and corn growth	1994	68.6(1.2)	71.4(1.7)	65.9(1.7)	73.3(1.3)	51.9(4.4)	57.8(4.1)
	1992	68.6(1.2)	68.8(1.6)	68.5(1.6)	72.4(1.4)	55.3(2.4)	51.5(5.5)
	1990	68.0(1.4)	70.5(2.0)	65.5(1.7)	70.2(1.4)	58.7(4.3)	61.0(7.5)
	1986	66.4(1.2)	68.7(1.7)	64.3(1.9)	69.8(1.2)	53.4(3.5)	53.7(4.6)
	1982	70.3(1.3)	70.3(1.8)	70.3(2.0)	72.9(1.6)	55.5(3.2)	67.4(3.6)
	1977	69.2(1.3)	70.6(1.5)	67.7(1.6)	72.7(1.2)	54.1(3.3)	47.9(4.1)
Food shortage: Birth rate	1994	85.3(0.9)	86.2(1.5)	84.5(1.1)	88.3(1.1)	72.8(3.5)	81.9(5.2)
	1992	84.9(1.3)	84.0(1.7)	85.8(1.1)	88.5(1.1)	69.9(5.1)	75.8(3.6)
	1990	83.8(0.9)	83.0(1.2)	84.6(1.3)	86.8(1.1)	73.7(3.4)	69.3(3.4)
	1986	84.9(1.2)	84.4(1.6)	85.3(1.6)	88.3(1.1)	73.9(3.7)	68.3(6.2)
	1982	84.3(1.3)	83.6(1.4)	85.1(1.6)	88.6(1.1)	64.6(3.5)	74.1(2.9)
	1977	94.2(0.6)	93.1(0.8)	95.2(0.7)	95.9(0.4)	85.4(2.3)	83.0(2.6)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Food shortage: Amount of food	1994	95.0(0.6)	94.3(0.7)	96.0(0.8)	96.4(0.7)	91.9(1.5)	90.2(3.1)
	1992	94.7(0.6)	92.6(0.9)	96.9(0.6)	96.1(0.6)	89.8(2.3)	90.6(2.8)
	1990	93.7(0.9)	91.9(1.3)	95.6(0.9)	96.0(0.7)	84.9(2.7)	87.7(4.0)
	1986	95.7(0.5)	95.4(0.9)	95.9(0.7)	96.8(0.5)	90.9(1.5)	94.0(1.8)
	1982	92.0(1.2)	92.2(1.1)	91.8(1.6)	94.3(1.3)	79.8(2.9)	92.1(1.8)
	1977	97.6(0.3)	97.0(0.4)	98.1(0.4)	98.6(0.2)	92.2(1.4)	93.4(2.0)
Food shortage: Markets	1994	64.0(1.5)	66.2(2.2)	62.0(1.5)	69.3(1.5)	47.6(3.5)	55.0(6.9)
	1992	66.4(1.2)	64.5(2.0)	68.4(1.6)	71.3(1.3)	49.5(4.1)	50.7(3.3)
	1990	68.0(1.4)	68.9(1.6)	67.0(1.7)	71.3(1.5)	57.6(4.1)	51.8(3.8)
	1986	74.8(1.2)	75.4(1.8)	74.2(1.6)	79.9(1.2)	58.0(3.1)	51.0(6.6)
	1982	71.2(1.1)	72.6(1.4)	69.9(1.4)	76.0(1.0)	48.0(3.7)	54.7(3.6)
	1977	78.2(1.1)	79.4(1.4)	77.0(1.3)	82.1(1.1)	55.6(3.0)	61.9(4.6)
Food shortage: Weather	1994	67.5(1.1)	68.2(1.6)	67.0(1.4)	70.5(1.2)	55.2(2.9)	62.9(6.3)
	1992	69.9(1.2)	72.2(1.6)	67.5(1.4)	72.5(1.2)	57.9(3.4)	65.8(4.5)
	1990	71.8(1.2)	72.3(1.8)	71.3(1.4)	76.1(1.4)	58.7(2.5)	55.1(6.0)
	1986	73.5(1.4)	72.3(1.9)	74.5(1.9)	77.2(1.4)	60.4(3.3)	57.7(4.8)
	1982	61.8(1.2)	62.1(1.6)	61.5(1.9)	66.1(1.2)	39.6(2.9)	49.3(4.5)
	1977	77.2(0.7)	77.2(1.4)	77.1(1.3)	79.8(0.8)	61.0(2.8)	74.8(3.6)
Volume equation	1994	84.4(1.3)	81.5(1.7)	87.3(1.5)	87.7(1.3)	76.8(2.2)	71.8(5.8)
	1992	85.8(0.9)	84.2(1.3)	87.3(1.3)	88.0(1.1)	78.7(3.4)	81.5(4.6)
	1990	84.2(1.3)	81.4(1.9)	86.8(1.4)	87.6(1.1)	73.8(4.2)	76.4(7.4)
	1986	83.2(1.2)	81.6(2.1)	84.7(1.3)	87.1(1.1)	69.2(4.2)	69.7(3.7)
	1982	75.0(1.3)	73.5(1.6)	76.5(1.7)	79.5(1.4)	57.3(3.6)	51.1(4.1)
	1977	68.2(1.5)	65.4(1.9)	70.9(1.7)	73.1(1.3)	40.9(3.1)	41.9(4.1)
Meaning of 20% chance of rain	1994	34.3(1.4)	38.9(2.1)	29.9(1.5)	39.0(1.6)	22.0(3.2)	16.6(4.3)
	1992	33.9(1.1)	38.4(1.9)	29.4(1.6)	38.2(1.3)	21.1(2.9)	24.6(4.8)
	1990	31.8(1.6)	34.7(1.8)	29.3(2.1)	37.2(1.7)	18.2(2.8)	15.9(3.3)
	1986	30.1(1.9)	36.2(2.6)	24.1(1.9)	34.1(2.1)	18.4(3.6)	11.3(3.4)
	1982	28.5(1.4)	34.3(2.5)	23.0(1.5)	31.6(1.6)	13.8(2.0)	18.9(5.1)
	1977	28.7(1.6)	33.2(1.9)	24.1(1.7)	31.0(1.6)	14.7(2.4)	20.0(5.7)
Poisons in food chains	1994	80.9(1.3)	82.2(1.5)	79.7(1.7)	86.2(1.3)	65.2(4.9)	64.9(4.2)
	1992	78.4(1.4)	82.9(1.7)	74.0(1.7)	84.0(1.2)	61.5(4.6)	64.3(7.3)
	1990	80.1(1.4)	81.3(1.8)	79.1(1.6)	85.1(0.8)	64.3(3.8)	73.5(4.6)
	1986	78.1(1.9)	81.6(2.5)	74.5(2.1)	82.5(2.2)	58.5(3.3)	67.3(4.8)
	1982	77.0(1.3)	76.4(1.3)	77.5(1.8)	79.2(1.3)	63.0(4.2)	72.4(4.3)
	1977	77.0(1.3)	76.4(1.3)	77.5(1.8)	79.2(1.3)	63.0(4.2)	72.4(4.3)
Inherited/learned: Smiling	1994	58.6(1.3)	63.3(1.6)	54.3(1.7)	59.1(1.6)	59.2(3.1)	53.5(3.1)
	1992	55.3(1.3)	59.6(1.5)	51.0(1.9)	55.7(1.5)	51.2(3.0)	60.4(3.7)
	1990	51.4(1.6)	52.2(2.2)	50.7(2.2)	50.6(1.9)	54.0(3.8)	56.0(3.8)
	1986	51.5(1.5)	57.0(2.2)	46.1(2.3)	47.4(1.7)	68.3(3.9)	65.9(4.9)
	1982	44.9(1.1)	48.1(1.9)	41.6(1.4)	42.5(1.2)	55.6(3.9)	57.4(4.9)
	1977	44.9(1.1)	48.1(1.9)	41.6(1.4)	42.5(1.2)	55.6(3.9)	57.4(4.9)
Inherited/learned: Swimming	1994	97.9(0.4)	97.3(0.6)	98.4(0.4)	98.2(0.4)	98.6(0.5)	94.7(2.1)
	1992	98.1(0.3)	97.5(0.5)	98.7(0.3)	98.6(0.3)	96.4(1.0)	98.7(0.7)
	1990	97.1(0.5)	95.8(1.0)	98.3(0.4)	98.3(0.3)	95.5(1.2)	88.4(3.7)
	1986	97.6(0.5)	96.4(0.9)	98.9(0.4)	97.5(0.6)	97.9(0.5)	98.9(0.9)
	1982	98.2(0.3)	97.6(0.5)	98.8(0.3)	98.1(0.3)	99.0(0.4)	96.3(2.1)
	1977	98.2(0.3)	97.6(0.5)	98.8(0.3)	98.1(0.3)	99.0(0.4)	96.3(2.1)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Inherited/learned: Writing	1994	91.9(0.8)	90.7(1.1)	93.1(0.9)	92.0(0.9)	92.1(1.5)	90.5(2.3)
	1992	91.6(0.7)	90.4(1.0)	92.8(0.9)	91.9(0.7)	93.1(1.7)	87.8(5.2)
	1990	92.1(0.8)	90.5(1.1)	93.4(0.9)	92.4(0.9)	89.6(1.8)	91.3(2.9)
	1986	93.4(0.8)	93.8(0.9)	93.0(1.1)	93.6(0.9)	93.1(1.1)	94.1(1.9)
	1977	93.0(0.6)	93.4(0.7)	92.6(0.9)	93.4(0.7)	89.3(2.2)	94.1(2.6)
Inherited/learned: Breathing	1994	83.3(1.1)	85.3(1.2)	81.7(1.5)	86.6(1.2)	74.7(2.4)	68.1(3.2)
	1992	82.6(0.8)	83.4(1.4)	81.8(1.3)	83.8(1.0)	78.4(1.9)	79.5(3.9)
	1990	82.3(0.9)	83.4(1.3)	81.3(1.4)	83.9(0.8)	76.4(3.4)	81.4(3.0)
	1986	82.8(1.3)	84.0(1.9)	81.6(1.4)	84.7(1.5)	73.5(2.5)	82.1(3.4)
	1977	84.8(1.0)	85.4(1.2)	84.1(1.3)	85.3(1.2)	80.8(2.0)	84.0(4.8)
Why publish? Share findings	1994	83.7(1.1)	81.3(1.6)	86.1(1.4)	86.7(1.1)	78.5(2.0)	71.4(6.4)
	1992	81.3(1.1)	81.3(1.5)	81.4(1.6)	84.2(1.2)	69.3(3.8)	78.3(3.3)
	1990	79.4(1.1)	77.2(1.6)	81.4(1.2)	81.7(1.3)	72.2(3.2)	70.0(3.7)
	1986	79.9(1.0)	79.8(1.7)	80.1(1.2)	81.7(1.0)	74.3(4.8)	69.3(3.2)
	1977	76.9(1.5)	75.7(1.6)	78.2(2.0)	77.8(1.5)	71.8(2.8)	74.1(4.4)
Why publish? Check findings	1994	79.7(1.1)	78.4(1.7)	80.9(1.3)	81.5(1.2)	76.7(3.7)	72.4(3.9)
	1992	76.5(1.3)	75.1(1.7)	78.0(1.5)	78.7(1.6)	67.4(2.3)	75.1(3.6)
	1990	76.0(1.1)	74.3(1.3)	77.4(1.4)	78.5(1.2)	67.5(4.6)	68.7(4.2)
	1986	74.1(1.4)	71.2(1.7)	77.1(1.8)	75.4(1.6)	68.8(2.9)	74.5(4.6)
	1977	79.8(1.0)	77.5(1.6)	82.2(1.1)	80.4(1.0)	77.8(2.2)	79.1(4.6)
Why publish? Add to knowledge	1994	80.9(1.1)	81.2(1.6)	80.7(1.4)	83.7(1.4)	71.7(2.0)	80.0(3.3)
	1992	83.1(1.0)	81.9(1.6)	84.2(1.3)	85.3(1.2)	75.1(3.4)	77.5(2.0)
	1990	82.9(1.1)	82.2(1.2)	83.5(1.5)	85.0(0.9)	74.4(4.0)	82.7(3.6)
	1986	84.6(1.0)	84.1(1.7)	85.2(1.2)	85.5(1.0)	84.0(2.6)	77.8(3.9)
	1977	85.1(0.7)	83.8(1.0)	86.4(0.9)	86.1(0.8)	81.3(2.0)	80.2(3.2)
Ocean currents and climate	1994	29.4(1.8)	33.5(2.3)	25.4(2.1)	34.0(2.3)	14.5(2.1)	14.5(3.5)
	1992	32.6(1.5)	36.7(2.1)	28.6(1.7)	36.6(1.5)	20.5(2.1)	20.5(5.1)
	1990	31.6(1.4)	36.5(2.1)	27.2(1.4)	36.4(1.4)	15.5(2.6)	22.6(3.1)
	1986	27.8(1.6)	31.3(2.5)	24.4(1.7)	31.1(1.9)	16.5(2.4)	12.2(1.9)
	1977	42.0(1.6)	50.0(2.0)	34.6(1.6)	45.3(1.6)	21.9(1.8)	26.3(3.7)
Energy content of foods	1994	5.8(0.6)	6.2(0.9)	5.5(0.9)	6.0(0.8)	6.4(1.3)	4.0(1.8)
	1992	6.7(0.6)	7.5(0.8)	5.9(0.8)	5.6(0.7)	7.8(1.5)	9.3(2.9)
	1990	6.2(0.7)	7.2(1.0)	5.3(0.8)	6.2(0.8)	8.7(1.7)	1.4(0.9)
	1986	6.4(0.7)	6.6(1.0)	6.2(0.8)	5.8(0.8)	8.0(2.3)	8.3(2.8)
	1977	4.4(0.5)	5.3(0.8)	3.6(0.5)	4.0(0.5)	6.4(1.1)	7.6(3.3)
Heating a copper wire	1994	63.6(1.5)	67.7(1.9)	59.8(2.2)	64.5(1.4)	59.2(4.0)	59.9(4.6)
	1992	65.0(1.3)	70.3(1.9)	59.8(1.5)	66.4(1.4)	58.7(3.5)	62.0(7.9)
	1990	65.4(1.0)	69.2(1.2)	62.1(1.6)	66.5(1.2)	62.2(3.3)	64.3(2.6)
	1986	66.0(1.1)	68.7(1.4)	63.2(2.0)	67.7(1.3)	59.0(3.5)	59.1(4.4)
	1982	67.9(1.9)	68.5(2.2)	67.3(2.6)	68.0(2.2)	69.4(3.0)	63.6(3.4)
	1977	69.3(1.0)	71.8(1.3)	66.9(1.4)	70.2(1.2)	64.3(2.2)	67.7(4.6)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Voltage between two points	1994	64.9(1.2)	64.5(1.4)	65.4(1.6)	70.1(1.3)	51.6(3.6)	48.6(4.4)
	1992	65.4(1.3)	68.2(1.7)	62.6(1.6)	70.4(1.3)	53.3(2.6)	48.6(8.3)
	1990	66.3(1.4)	67.8(1.6)	65.0(1.7)	71.1(1.2)	51.4(1.9)	57.1(5.0)
	1986	66.7(1.2)	68.3(1.5)	65.1(2.1)	70.6(1.5)	48.6(3.0)	61.6(4.5)
	1982	66.1(1.5)	67.1(2.1)	65.2(1.6)	68.5(1.6)	53.9(3.0)	64.8(8.1)
	1977	61.4(1.0)	63.1(1.4)	59.7(1.6)	63.4(1.2)	46.3(2.5)	58.8(6.8)
Relative movement: Boy-bike	1994	25.5(1.7)	30.4(2.1)	20.9(1.8)	29.1(2.0)	16.1(2.8)	12.3(2.9)
	1992	23.4(1.1)	29.2(1.7)	17.7(1.3)	26.8(1.4)	10.9(3.4)	16.0(4.3)
	1990	22.4(1.1)	27.8(1.6)	17.5(1.2)	25.0(1.2)	11.4(2.3)	16.1(3.1)
	1986	21.6(2.0)	28.3(3.5)	14.8(1.5)	24.0(2.4)	13.4(2.5)	9.5(2.8)
	1977	25.7(1.2)	29.7(1.5)	21.8(1.5)	28.4(1.3)	10.0(2.0)	11.8(2.7)
Relative movement: Boy-car	1994	92.4(0.7)	92.6(0.9)	92.3(0.9)	94.8(0.7)	83.6(2.2)	91.1(2.6)
	1992	92.4(0.9)	93.1(0.9)	91.6(1.3)	93.9(0.7)	86.2(2.0)	90.9(5.4)
	1990	90.9(1.0)	91.9(1.3)	90.0(1.2)	93.1(0.8)	83.5(2.9)	85.5(3.2)
	1986	93.0(0.8)	94.0(0.8)	91.9(1.2)	93.8(0.8)	89.3(2.9)	91.7(2.6)
	1977	92.2(0.6)	93.4(0.7)	91.1(1.0)	93.3(0.6)	84.1(2.5)	92.1(3.2)
Relative movement: Car-bike	1994	53.4(1.6)	56.4(2.1)	50.8(1.9)	57.3(1.9)	45.1(2.5)	40.4(4.0)
	1992	52.2(1.3)	56.6(1.6)	47.8(1.5)	56.3(1.5)	42.1(2.4)	38.2(3.5)
	1990	49.1(1.2)	53.3(1.4)	45.5(1.7)	52.1(1.2)	36.8(2.5)	48.2(5.8)
	1986	48.2(1.6)	53.7(2.5)	42.7(2.0)	51.7(2.1)	34.2(3.1)	34.1(5.1)
	1977	60.7(1.0)	61.9(1.4)	59.4(1.4)	63.7(1.0)	43.3(2.5)	45.3(4.6)
Relative movement: Boy-tree	1994	88.8(0.9)	89.6(1.1)	88.1(1.4)	90.5(0.9)	81.6(2.3)	85.3(3.1)
	1992	90.1(0.7)	89.1(1.0)	91.0(1.0)	91.2(0.7)	86.6(2.7)	86.8(5.1)
	1990	89.9(0.8)	91.1(1.0)	88.9(1.1)	91.2(0.9)	85.8(2.2)	85.3(4.4)
	1986	90.6(0.7)	91.9(0.9)	89.3(1.1)	91.5(0.8)	85.7(2.3)	92.4(1.9)
	1977	90.0(0.7)	90.4(0.9)	89.7(0.8)	90.8(0.7)	83.8(1.9)	90.8(4.1)
Temperature affects pressure	1994	46.3(1.6)	55.3(2.2)	37.9(2.0)	52.7(2.0)	28.3(2.5)	25.0(3.4)
	1992	45.7(1.5)	53.9(1.7)	37.6(2.4)	51.6(1.7)	22.7(3.1)	37.7(4.6)
	1990	43.0(1.5)	53.3(1.9)	33.8(1.9)	48.6(1.5)	26.2(2.9)	25.0(3.2)
	1986	43.5(1.6)	57.9(2.3)	29.0(1.5)	47.7(1.5)	25.7(4.3)	31.1(3.7)
	1977	45.1(1.5)	58.5(1.7)	32.7(1.8)	49.1(1.4)	19.6(2.0)	33.1(5.6)
Beam of electrons in TV screen	1994	45.0(1.4)	47.3(2.2)	42.7(1.6)	48.8(1.8)	34.6(2.3)	34.2(3.3)
	1992	40.4(1.3)	41.4(1.9)	39.3(2.0)	44.4(1.6)	32.2(3.4)	24.3(3.8)
	1990	37.1(1.1)	39.4(1.6)	35.0(1.6)	38.3(1.1)	34.3(3.3)	29.9(2.4)
	1986	33.7(1.2)	37.0(1.9)	30.3(1.3)	35.7(1.4)	23.9(3.5)	28.4(6.1)
	1977	34.2(1.2)	39.3(1.8)	29.5(1.4)	34.4(1.3)	33.2(3.3)	31.9(4.3)
Acceleration of wagon on hill	1994	32.3(1.4)	41.8(1.8)	23.4(1.7)	38.4(1.6)	11.6(3.0)	18.5(2.8)
	1992	28.9(1.4)	37.4(1.4)	20.4(2.0)	34.0(1.7)	13.7(2.8)	13.7(3.0)
	1990	28.3(1.3)	35.3(1.6)	22.2(1.5)	32.6(1.5)	11.9(2.1)	20.5(4.2)
	1986	28.6(1.6)	38.0(2.9)	19.2(1.3)	32.2(1.7)	13.3(3.0)	17.2(2.5)
	1977	26.0(1.1)	35.8(1.3)	16.3(1.3)	29.1(1.1)	9.2(1.7)	13.6(2.8)
Light bulbs in series	1994	30.2(1.4)	35.0(1.9)	25.6(1.8)	35.6(1.7)	13.5(1.7)	20.6(4.1)
	1992	29.4(1.3)	33.6(2.0)	25.3(1.7)	34.7(1.3)	11.6(1.7)	20.7(3.4)
	1990	28.3(1.4)	35.5(1.7)	22.0(1.5)	31.8(1.5)	14.5(2.1)	24.4(3.9)
	1986	24.5(1.3)	32.2(1.9)	16.9(1.3)	26.7(1.3)	15.6(3.6)	19.7(3.2)
	1977	25.4(1.1)	32.0(1.6)	19.0(1.3)	27.8(1.2)	11.2(2.1)	19.3(4.0)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Interpret a chemical formula	1994	61.4(1.8)	59.8(2.2)	63.4(2.4)	64.5(1.9)	55.9(4.3)	49.3(4.7)
	1992	59.5(1.2)	58.4(2.0)	60.7(1.5)	62.4(1.4)	48.5(3.7)	45.6(4.0)
	1990	57.4(1.3)	58.6(1.7)	56.3(1.8)	60.1(1.3)	53.8(2.8)	39.8(6.6)
	1986	56.3(1.4)	57.9(2.2)	54.9(1.7)	59.7(1.6)	46.2(3.6)	42.9(5.4)
	1977	44.6(1.7)	46.8(2.3)	42.6(1.7)	47.6(1.7)	28.3(4.1)	32.8(4.8)
Analyzing causes of disease	1994	55.6(1.6)	54.9(2.2)	56.5(1.9)	60.0(1.9)	37.0(2.9)	49.8(5.0)
	1992	56.7(1.4)	56.2(1.9)	57.2(1.7)	60.0(1.5)	43.3(3.7)	51.3(2.8)
	1990	54.6(1.6)	53.9(2.2)	55.2(1.6)	57.7(1.9)	40.3(3.6)	49.2(5.4)
	1986	55.7(1.6)	54.9(2.5)	56.5(2.1)	59.7(1.9)	38.3(3.0)	48.6(3.7)
	1977	56.0(1.2)	54.5(1.7)	57.4(1.2)	59.3(1.3)	34.5(2.3)	41.2(4.7)
Neutralize alkali	1994	11.0(0.7)	11.6(0.9)	10.4(1.0)	11.9(0.7)	9.9(1.7)	6.1(1.7)
	1992	10.7(0.8)	11.7(1.0)	9.7(1.1)	11.1(0.9)	7.8(2.1)	9.8(2.3)
	1990	10.1(0.8)	11.1(1.1)	9.1(0.9)	10.1(0.8)	9.1(1.8)	7.6(4.2)
	1986	10.6(1.0)	11.5(1.6)	9.9(1.0)	11.1(1.0)	7.7(1.8)	8.9(2.8)
	1977	9.9(0.9)	10.2(1.3)	9.6(1.1)	9.7(1.0)	10.7(1.6)	8.1(3.1)
Ratio of oxygen/copper	1994	51.3(1.8)	51.2(2.4)	51.8(2.3)	53.3(2.0)	40.4(5.1)	48.1(5.3)
	1992	49.5(1.6)	50.1(1.9)	48.9(2.0)	52.5(1.8)	33.7(4.2)	43.9(4.7)
	1990	47.3(1.9)	47.6(2.3)	46.9(2.1)	49.6(1.9)	37.1(6.1)	36.6(8.1)
	1986	43.2(1.9)	42.6(2.3)	43.8(2.4)	46.9(2.3)	30.8(4.3)	25.2(5.3)
	1977	37.1(1.8)	39.2(2.4)	35.1(1.7)	39.4(1.6)	22.2(3.9)	24.4(5.8)
Plant experiment: Conclusion	1994	29.9(1.4)	29.9(1.6)	29.9(1.9)	34.6(1.8)	19.6(3.9)	15.5(3.0)
	1992	29.5(1.3)	29.7(1.3)	29.2(2.0)	32.5(1.5)	19.3(2.6)	19.9(3.5)
	1990	28.8(1.4)	29.7(2.1)	27.9(1.6)	32.5(1.5)	18.0(2.4)	10.1(3.8)
	1986	31.5(1.8)	31.1(2.4)	31.8(2.2)	35.6(2.0)	17.0(3.3)	14.2(3.1)
	1977	28.7(1.2)	28.3(1.7)	29.0(1.5)	31.3(1.3)	14.0(2.4)	17.1(2.8)
Plant experiment: Control	1994	79.7(1.3)	77.4(2.0)	82.2(1.1)	82.9(1.4)	67.3(4.3)	75.3(5.8)
	1992	81.8(1.2)	78.1(1.6)	85.6(1.3)	84.5(1.1)	68.0(3.9)	75.6(3.3)
	1990	79.2(1.2)	74.4(1.7)	84.1(1.3)	81.8(1.0)	70.3(2.8)	68.7(6.5)
	1986	77.9(1.5)	74.0(2.2)	81.4(1.7)	81.7(1.5)	62.2(3.6)	72.0(3.6)
	1977	77.9(1.1)	75.2(1.6)	80.3(1.7)	79.7(1.3)	67.1(2.8)	71.9(4.2)
Formation of chemical product	1994	34.4(1.5)	37.2(2.1)	32.0(2.1)	39.5(1.8)	19.3(3.4)	22.3(4.5)
	1992	35.2(1.3)	36.5(1.6)	33.8(1.8)	39.6(1.4)	18.7(2.8)	21.5(3.2)
	1990	36.3(1.5)	39.0(2.1)	33.5(1.8)	39.6(1.4)	22.4(4.7)	28.1(5.4)
	1986	34.2(1.3)	34.2(2.1)	34.2(1.8)	38.4(1.4)	15.9(2.3)	17.6(3.9)
	1977	32.3(1.2)	34.8(1.7)	30.1(1.4)	35.5(1.2)	12.6(2.7)	18.4(4.1)
Energy added to melting ice	1994	33.9(1.4)	35.9(1.8)	31.8(1.8)	36.8(1.7)	21.2(2.3)	30.0(6.0)
	1992	33.0(1.2)	33.7(2.0)	32.2(1.2)	35.5(1.3)	21.5(2.5)	26.7(3.9)
	1990	31.2(1.5)	33.5(2.0)	28.9(1.8)	33.4(1.6)	23.5(2.8)	19.9(6.6)
	1986	29.7(1.3)	31.8(1.7)	27.8(1.7)	30.8(1.5)	23.4(2.7)	28.8(3.5)
	1977	30.7(1.2)	33.0(1.4)	28.4(1.4)	32.4(1.2)	18.8(2.4)	29.3(6.4)
Balancing a chemical equation	1994	46.5(1.6)	47.2(1.8)	45.8(2.0)	49.3(1.8)	32.5(3.8)	38.5(4.9)
	1992	46.4(1.6)	43.8(2.2)	49.1(1.9)	49.9(1.6)	31.3(4.3)	31.8(6.9)
	1990	45.0(1.8)	43.4(2.3)	46.6(2.2)	47.7(1.7)	35.5(7.1)	29.9(6.0)
	1986	40.3(2.4)	40.5(3.1)	40.1(2.6)	43.6(2.7)	26.9(2.9)	23.3(4.5)
	1977	32.6(1.6)	33.3(1.7)	31.8(2.3)	35.9(1.7)	13.4(2.3)	19.6(5.8)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Science Trend Assessment — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Estimate half-life from graph	1994	32.0(1.4)	37.6(1.8)	26.3(1.6)	36.4(1.7)	17.1(3.3)	26.2(5.7)
	1992	33.4(1.7)	36.9(2.1)	29.8(1.9)	36.9(1.9)	20.6(3.0)	16.9(3.5)
	1990	34.1(1.8)	38.3(2.1)	29.9(1.9)	36.7(1.8)	26.8(4.6)	16.2(4.4)
	1986	32.8(1.1)	36.2(1.6)	29.6(1.6)	34.5(1.3)	25.1(3.5)	30.5(3.8)
	1977	26.4(1.2)	31.0(1.7)	22.1(1.2)	28.8(1.2)	13.0(1.5)	14.8(2.6)
Equilibrium reaction	1994	26.2(1.2)	28.1(1.8)	24.3(1.5)	27.2(1.5)	21.3(3.1)	23.3(4.4)
	1992	27.9(0.8)	28.3(1.3)	27.4(1.3)	27.5(1.0)	32.0(3.2)	22.8(3.4)
	1990	24.6(1.4)	26.9(2.0)	22.3(1.4)	25.6(1.3)	23.1(3.4)	10.5(3.1)
	1986	28.7(1.4)	31.3(2.2)	26.4(1.7)	29.5(1.6)	24.7(2.8)	26.8(4.4)
	1977	30.6(1.3)	30.1(1.9)	31.0(1.6)	30.8(1.5)	33.4(3.1)	19.9(4.3)

The standard errors of the estimated percentages appear in parenthesis.

Data Appendix

Mathematics

NAEP 1994 Mathematics Trend Assessment — Age 9

Average mathematics scale scores across assessment years

Weighted percentages and average mathematics scale scores and jackknifed standard errors

	1973	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL		100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
	219.0(0.8)*	218.6(0.8)*	219.0(1.1)*	221.7(1.0)*	229.6(0.8)†	229.6(0.8)†	231.1(0.8)#	LQ
GENDER								
Male		49.7(0.5)	49.3(0.6)	50.0(0.6)	49.4(0.6)	48.6(0.6)	48.9(0.8)	N
	218.0(0.7)*	217.4(0.7)*	217.1(1.2)*	221.7(1.1)†*	229.1(0.9)†	230.8(1.0)†	232.2(1.0)#	LQ
Female		50.3(0.5)	50.7(0.6)	50.0(0.6)	50.6(0.6)	51.4(0.6)	51.1(0.8)	N
	220.0(1.1)*	219.9(1.0)*	220.8(1.2)*	221.7(1.2)*	230.2(1.1)†	228.4(1.0)†	230.0(0.9)#	LQ
RACE/ETHNICITY								
White		79.4(1.4)*	78.6(2.5)	76.5(1.1)	74.5(1.1)†	75.4(0.9)	74.7(0.7)#	L
	225.0(1.0)*	224.1(0.9)*	224.0(1.1)*	226.9(1.1)*	235.2(0.8)†	235.1(0.8)†	236.8(1.0)#	LQ
Black		13.8(1.4)	14.3(2.0)	14.9(0.5)	16.3(0.7)	15.9(0.4)	15.1(0.5)	N
	190.0(1.8)*	192.4(1.1)*	194.9(1.6)*	201.6(1.6)†*	208.4(2.2)†	208.0(2.0)†	212.1(1.6)#	L
Hispanic		5.4(0.7)	5.4(1.1)	6.2(1.1)	5.5(0.6)	5.6(0.8)	6.1(0.4)	N
	202.0(2.4)	202.9(2.2)	204.0(1.3)	205.4(2.1)	213.8(2.1)†	211.9(2.3)†	209.9(2.3)#	L
Other		1.4(0.2)*	1.7(0.6)*	2.5(0.5)	3.8(1.0)	3.0(0.4)†	4.1(0.4)#	L
		227.2(3.4)	238.5(3.4)	221.8(7.5)	235.2(3.2)	239.3(3.4)	231.1(4.6)	N
REGION								
Northeast		22.5(2.5)	21.0(2.7)	21.1(1.1)	23.2(0.9)	20.9(1.2)	21.8(0.9)	N
	227.0(1.9)*	226.9(1.9)*	225.7(1.8)*	226.0(2.7)*	235.8(2.1)†	234.8(1.9)†	237.6(2.2)#	LQ
Southeast		23.7(2.1)	24.1(2.7)	22.5(4.7)	24.1(0.9)	24.1(1.3)	24.5(1.5)	N
	208.0(1.3)*	208.9(1.2)*	210.4(2.5)*	217.8(2.5)†*	223.9(2.4)†	221.0(1.7)†*	229.0(1.4)#	LQ
Central		30.7(1.8)	27.6(3.8)	28.6(4.0)	24.3(0.6)†	28.2(0.8)	25.9(1.0)#	N
	224.0(1.5)*	224.0(1.5)*	221.1(2.7)*	226.0(2.3)	230.7(1.3)†	233.7(1.6)†	233.1(1.8)#	LQ
West		23.1(2.0)	27.3(2.0)	27.7(1.6)	28.4(0.8)	26.7(0.8)	27.8(1.0)#	N
	216.0(2.2)*	213.5(1.3)*	219.3(1.8)*	217.2(2.4)*	228.5(1.8)†	229.0(2.3)†	226.0(1.6)#	L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 9

Average mathematics scale scores across assessment years

Weighted percentages and average mathematics scale scores and jackknifed standard errors (continued)

	1978	1982	1986	1990	1992	1994	TREND TESTS
PARENTS' EDUCATION LEVEL							
Less Than H.S.	7.9(0.4)*	8.0(0.7)*	4.2(0.4)†	4.9(0.4)†	4.2(0.3)†	3.8(0.4)#	L
	200.3(1.5)*	199.0(1.7)*	200.6(2.5)	210.4(2.3)†	216.7(2.2)†	210.0(3.0)#	L
Graduated H.S.	23.0(0.8)*	25.1(0.8)*	16.4(0.7)†	16.0(0.7)†	13.5(0.7)†	14.0(0.6)#	L
	219.2(1.1)*	218.3(1.1)*	218.4(1.6)*	226.2(1.2)†	222.0(1.5)	225.3(1.3)#	L
Some Educ. After H.S.	8.8(0.4)*	9.4(0.4)*	6.6(0.6)†	7.4(0.4)	7.8(0.4)	7.0(0.4)#	L
	230.1(1.7)*	225.2(2.1)*	228.6(2.1)*	235.8(2.0)	237.4(1.9)†	239.3(2.1)#	LQ
Graduated College	23.6(1.1)*	30.1(1.5)†*	37.8(1.1)†*	40.1(1.1)†*	41.5(1.2)†	45.0(0.8)#	LQ
	231.3(1.1)*	228.8(1.5)*	231.3(1.1)*	237.6(1.3)†	236.2(1.0)†	237.8(0.8)#	LQ
Unknown	36.8(1.5)*	27.3(1.1)†	34.9(1.0)*	31.7(0.8)†	33.0(0.8)	30.2(0.8)#	N
	211.4(1.1)*	212.6(1.5)*	214.3(1.4)*	223.0(1.0)†	224.5(1.0)†	224.8(1.1)#	L
GRADE							
Below Modal Grade	26.0(0.9)*	30.4(1.5)	33.9(1.7)†	34.8(1.4)†	37.6(1.2)†	33.4(1.3)#	LQ
	190.9(1.1)*	193.1(1.4)*	198.1(1.0)†*	207.2(1.2)†	208.1(1.2)†	210.7(1.1)#	L
At Modal Grade	72.3(0.9)*	68.7(1.5)	65.8(1.7)†	64.8(1.4)†	62.1(1.2)†	66.4(1.3)#	LQ
	228.5(0.9)*	230.1(1.0)*	233.8(1.0)†*	241.7(1.0)†	242.5(0.7)†	241.2(1.0)#	L
Above Modal Grade	0.8(0.2)*	0.5(0.1)	0.3(0.1)†	0.3(0.1)	0.3(0.1)†	***(***)	L
	240.5(7.1)	258.3(9.3)	248.8(10.8)	239.3(8.9)	260.0(5.4)	263.6(12.1)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 9

Average mathematics scale scores across assessment years

Weighted percentages and average mathematics scale scores and jackknifed standard errors (continued)

	1978	1982	1986	1990	1992	1994	TREND TESTS
TYPE OF SCHOOL							
Public	88.9(1.8)	86.5(2.2)	83.9(2.7)	88.9(2.1)	86.6(1.6)	88.1(1.8)	N
	217.2(0.8)*	217.0(1.1)*	220.1(1.2)*	228.6(0.9)†	227.7(0.9)†	229.3(0.9)#	L
Non-Public	11.1(1.8)	13.5(2.2)	16.1(2.7)	11.1(2.1)	13.4(1.6)	11.9(1.8)	N
	230.5(1.7)*	231.8(2.1)*	230.0(2.5)*	238.1(2.3)†	241.5(1.7)†	244.5(2.3)#	LQ
QUARTILES							
Upper	25.0(0.8)	25.0(1.1)	25.0(1.0)	25.0(0.8)	24.9(0.9)	25.0(0.8)	N
	256.0(0.8)*	256.0(0.6)*	259.3(0.7)†*	265.6(0.8)†	265.6(0.8)†	267.1(0.8)#	LQ
Middle Two	50.0(0.6)	50.0(0.7)	50.0(0.9)	50.0(0.6)	50.0(0.7)	50.1(0.8)	N
	220.5(0.5)*	220.7(0.5)*	223.3(0.5)†*	231.3(0.4)†	231.5(0.5)†	233.0(0.6)#	LQ
Lower	25.0(0.8)	25.0(1.1)	25.0(1.2)	25.0(0.9)	25.0(0.9)	24.9(0.8)	N
	177.6(0.6)*	178.5(0.8)*	180.9(0.7)†*	190.3(1.0)†	189.9(0.8)†	191.2(0.8)#	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 13

Average mathematics scale scores across assessment years

Weighted percentages and average mathematics scale scores and jackknifed standard errors

	1973	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL		100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
	266.0(1.1)*	264.1(1.1)*	268.6(1.1)*	269.0(1.2)*	270.4(0.9)†*	273.1(0.9)†	274.3(1.0)#	LQ
GENDER								
Male		49.9(0.5)	50.2(0.4)	49.8(0.9)	49.8(0.6)	49.9(0.8)	49.2(0.8)	N
	265.0(1.3)*	263.6(1.3)*	269.2(1.4)*	270.0(1.1)†*	271.2(1.2)†*	274.1(1.1)†	276.0(1.3)#	L
Female		50.1(0.5)	49.8(0.4)	50.2(0.9)	50.2(0.6)	50.1(0.8)	50.8(0.8)	N
	267.0(1.1)*	264.7(1.1)*	268.0(1.1)*	267.9(1.5)	269.6(0.9)	272.0(1.0)†	272.7(1.0)#	LQ
RACE/ETHNICITY								
White		80.2(1.7)*	79.2(2.1)*	76.8(1.0)*	73.4(0.7)†	74.2(0.5)†	72.9(0.5)#	L
	274.0(0.9)*	271.6(0.8)*	274.4(1.0)*	273.6(1.3)*	276.3(1.1)*	278.9(0.9)†	280.8(0.9)#	LQ
Black		13.1(1.5)	13.8(1.8)	14.4(0.9)	15.6(0.3)	15.9(0.3)	15.3(0.3)	N
	228.0(1.9)*	229.6(1.9)*	240.4(1.6)†*	249.2(2.3)†	249.1(2.3)†	250.2(1.9)†	251.5(3.5)#	L
Hispanic		5.8(0.9)	5.0(1.2)	6.6(1.1)	7.3(0.5)	7.0(0.5)	8.1(0.4)#	L
	239.0(2.2)*	238.0(2.0)*	252.4(1.7)†	254.3(2.9)†	254.6(1.8)†	259.3(1.8)†	256.0(1.9)#	L
Other		0.9(0.2)*	2.0(0.5)*	2.2(0.3)†*	3.7(0.8)†	2.9(0.3)†*	3.7(0.2)#	L
		272.5(3.5)	274.5(4.1)	282.7(3.4)	273.5(7.2)	282.0(2.3)	283.6(3.0)#	L
REGION								
Northeast		22.5(2.2)	23.8(2.5)	22.4(1.6)	24.3(1.0)*	20.9(0.8)	20.2(0.9)	N
	275.0(2.4)*	272.7(2.4)*	276.9(2.0)*	276.6(2.2)*	274.7(2.3)*	273.6(2.2)*	284.2(1.5)#	L
Southeast		22.6(2.0)	22.5(2.2)	24.7(5.8)	23.1(0.8)	23.9(1.6)	22.2(1.7)	N
	255.0(3.2)*	252.7(3.3)*	258.1(2.2)*	263.5(1.4)	265.7(1.9)†	271.0(2.5)†	268.6(2.0)#	L
Central		31.3(1.8)	26.9(3.4)	24.9(5.0)	23.5(0.7)†	26.6(1.0)	26.6(1.8)	N
	271.0(1.8)	269.4(1.8)	272.8(2.1)	266.1(4.5)	272.2(2.4)	275.4(1.5)	275.0(3.4)	N
West		23.6(2.2)*	26.9(2.3)	28.0(1.5)	29.1(0.9)	28.6(0.9)	31.0(1.1)#	L
	262.0(1.9)*	260.0(1.9)*	266.0(2.4)	270.4(2.1)†	269.1(1.6)†	272.3(1.4)†	271.5(1.7)#	L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 13

Average mathematics scale scores across assessment years

Weighted percentages and average mathematics scale scores and jackknifed standard errors (continued)

	1978	1982	1986	1990	1992	1994	TREND TESTS
PARENTS' EDUCATION LEVEL							
Less Than H.S.	12.2(0.6)*	10.7(0.6)*	7.9(1.1)†	7.6(0.5)†	5.9(0.5)†	6.2(0.4)#	L
	244.7(1.2)*	251.0(1.4)†	252.3(2.3)†	253.4(1.8)†	255.5(1.0)†	254.5(2.1)#	L
Graduated H.S.	33.0(0.8)*	34.4(0.8)*	31.0(1.3)*	26.8(0.8)†*	23.1(0.9)†	23.1(0.9)#	LQ
	263.1(1.0)	262.9(0.8)	262.7(1.2)	262.6(1.2)	263.2(1.2)	265.7(1.1)	N
Some Educ. After H.S.	14.3(0.4)*	14.1(0.4)*	15.6(0.6)	16.8(0.6)†	18.4(0.7)†	16.8(0.6)#	L
	273.1(1.2)	275.1(0.9)	273.7(0.8)	277.1(1.0)†	277.6(1.0)†	277.3(1.6)#	L
Graduated College	25.7(1.2)*	32.1(1.3)†*	37.5(2.0)†*	40.8(1.2)†*	44.1(1.3)†	45.5(1.3)#	L
	283.8(1.2)	282.3(1.5)	279.9(1.4)*	280.4(1.0)*	282.8(1.0)	284.9(1.2)	Q
Unknown	14.8(0.9)*	8.8(0.8)†	8.0(0.4)†	7.9(0.5)†	8.4(0.4)†	8.3(0.5)#	LQ
	239.5(1.3)*	251.9(3.2)†	247.4(2.3)†	247.8(2.1)†	252.9(1.8)†	252.4(2.4)#	L
GRADE							
Below Modal Grade	27.4(1.1)*	28.4(1.4)*	32.7(2.1)	36.1(1.3)†	37.4(1.1)†	37.6(1.3)#	L
	239.6(1.4)*	247.2(1.4)†*	251.1(1.1)†*	252.7(1.0)†*	258.1(1.3)†	259.3(1.2)#	L
At Modal Grade	70.5(1.1)*	70.3(1.4)*	66.8(2.1)	63.4(1.4)†	62.4(1.0)†	61.5(1.3)#	L
	273.8(1.1)*	276.6(0.9)*	277.6(1.0)†*	280.4(0.9)†	281.8(0.9)†	283.0(1.0)#	L
Above Modal Grade	0.7(0.2)	1.4(0.5)	0.5(0.1)	0.5(0.2)	0.2(0.1)	***(***)	N
	297.6(9.1)	303.9(6.3)	296.9(7.7)	277.8(16.5)	327.9(9.5)	309.4(29.5)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 13

Average mathematics scale scores across assessment years

Weighted percentages and average mathematics scale scores and jackknifed standard errors (continued)

	1978	1982	1986	1990	1992	1994	TREND TESTS
TYPE OF SCHOOL							
Public	90.8(1.6)	89.4(1.3)	95.9(1.8)*	89.6(1.4)	88.1(1.9)	88.4(1.7)	Q
	262.6(1.2)*	267.1(1.3)†*	268.7(1.2)†*	269.3(1.0)†	271.7(1.0)†	273.0(1.1)#	L
Non-Public	9.2(1.6)	10.6(1.3)	4.1(1.8)*	10.4(1.4)	11.9(1.9)	11.6(1.7)	Q
	279.2(1.4)	281.1(2.1)	275.7(4.9)	279.9(1.7)	283.3(2.5)	284.6(2.4)	L
QUARTILES							
Upper	25.0(1.1)	25.0(1.1)	25.0(1.4)	25.0(1.1)	24.9(1.1)	25.0(1.1)	N
	305.0(0.6)*	305.6(0.7)*	305.7(0.7)*	306.5(0.6)*	308.6(0.6)†*	311.5(0.9)#	LQ
Middle Two	50.0(0.7)	50.0(0.7)	50.0(0.9)	50.1(0.9)	50.1(0.8)	50.0(0.9)	N
	265.5(0.4)*	269.3(0.3)†*	268.6(0.5)†*	270.7(0.4)†*	273.8(0.4)†	275.1(0.5)#	LQ
Lower	25.0(1.1)	25.0(1.3)	25.0(1.2)	24.9(1.0)	25.0(0.9)	25.0(1.0)	N
	220.6(0.7)*	230.3(0.8)†*	232.9(0.7)†	233.7(0.8)†	236.3(1.2)†	235.7(1.0)#	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 17

Average mathematics scale scores across assessment years

Weighted percentages and average mathematics scale scores and jackknifed standard errors

	1973	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL		100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
	304.0(1.1)	300.4(1.0)*	298.5(0.9)†*	302.0(0.9)*	304.6(0.9)	306.7(0.9)	306.2(1.0)	LQ
GENDER								
Male		48.7(0.5)	48.7(0.6)	49.0(1.2)	48.6(0.9)	50.7(1.2)	49.5(1.3)	N
	309.0(1.2)	303.8(1.0)†*	301.5(1.0)†*	304.7(1.2)	306.3(1.1)	308.9(1.1)	308.5(1.4)	Q
Female		51.3(0.5)	51.3(0.6)	51.0(1.2)	51.4(0.9)	49.3(1.2)	50.5(1.3)	N
	301.0(1.1)	297.1(1.0)*	295.6(1.0)†*	299.4(1.0)*	302.9(1.1)	304.5(1.1)	304.1(1.1)#	LQ
RACE/ETHNICITY								
White		83.1(1.3)*	80.7(2.0)*	77.6(0.5)†*	73.3(0.5)†	74.7(0.5)†*	72.5(0.5)#	L
	310.0(1.1)	305.9(0.9)†*	303.7(0.9)†*	307.5(1.0)*	309.5(1.0)	311.9(0.8)	312.3(1.1)	LQ
Black		11.8(1.1)*	12.5(1.7)	14.3(0.3)	15.6(0.3)†	14.8(0.3)	15.5(0.3)#	L
	270.0(1.3)*	268.4(1.3)*	271.8(1.2)*	278.6(2.1)†	288.5(2.8)†	285.8(2.2)†	285.5(1.8)#	L
Hispanic		4.0(0.5)*	4.9(1.0)*	5.5(0.3)*	6.9(0.4)†*	7.4(0.5)†	8.8(0.3)#	L
	277.0(2.2)*	276.3(2.3)*	276.7(1.8)*	283.1(2.9)	283.5(2.9)	292.2(2.6)†	290.8(3.7)#	LQ
Other		1.1(0.1)*	1.9(0.6)	2.6(0.4)†	4.2(0.5)†	3.1(0.2)†	3.2(0.3)#	LQ
		312.9(3.3)	309.4(4.5)	304.7(7.2)	312.5(5.2)	317.1(4.0)	312.7(4.5)	N
REGION								
Northeast		23.0(2.0)	24.0(2.8)	23.7(0.8)	22.1(1.0)	21.6(0.9)	22.7(1.0)	N
	312.0(1.8)	306.7(1.8)	304.0(2.0)†	307.4(1.9)	303.8(2.1)†	311.4(2.0)	312.7(2.9)	Q
Southeast		22.3(2.1)	20.5(2.1)	22.9(2.3)	24.3(0.9)	24.6(1.4)	24.6(1.5)	N
	296.0(1.8)	292.3(1.7)*	292.3(2.1)*	297.3(1.4)	301.0(2.3)	301.3(1.9)	300.9(1.6)#	L
Central		31.3(2.1)	29.6(4.3)	27.7(2.2)	25.9(0.9)	25.0(1.0)†	25.5(1.1)#	L
	306.0(1.8)	305.2(1.9)	302.0(1.4)	303.6(1.9)	311.2(2.1)	312.2(2.0)	307.0(2.2)	LQ
West		23.4(2.5)	25.9(2.8)	25.7(0.9)	27.7(0.9)	28.9(0.9)	27.1(1.0)	N
	303.0(2.0)	295.5(1.8)†*	294.1(1.9)†*	299.3(2.7)	302.1(1.5)	303.1(2.3)	304.8(2.4)	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 17

Average mathematics scale scores across assessment years

Weighted percentages and average mathematics scale scores and jackknifed standard errors (continued)

	1978	1982	1986	1990	1992	1994	TREND TESTS
PARENTS' EDUCATION LEVEL							
Less Than H.S.	13.3(0.6)*	13.8(0.9)*	8.3(0.4)†	7.9(0.6)†	8.1(0.6)†	7.0(0.5)#	L
	279.6(1.2)	279.3(1.0)	279.3(2.3)	285.4(2.2)	285.5(2.3)	283.7(2.4)	L
Graduated H.S.	33.3(0.7)*	32.7(0.8)*	27.9(1.1)†*	26.4(1.1)†*	21.4(0.9)†	22.1(0.8)#	L
	293.9(0.8)	293.4(0.8)	293.1(1.0)	293.7(0.9)	297.6(1.7)	295.3(1.1)	L
Some Educ. After H.S.	16.2(0.4)*	17.7(0.5)*	24.1(1.0)†	23.8(0.9)†	25.4(0.9)†	23.5(1.1)#	LQ
	305.3(0.9)	303.9(0.9)	305.2(1.2)	307.7(1.0)	307.5(1.1)	305.0(1.3)	N
Graduated College	32.4(1.1)*	31.8(1.3)*	36.9(1.2)†*	38.9(1.4)†*	42.6(1.4)†	44.4(1.5)#	L
	316.8(1.0)	312.4(1.0)†*	313.9(1.4)	316.2(1.3)	315.9(1.0)	317.6(1.4)	Q
Unknown	4.8(0.4)*	4.0(0.3)	2.8(0.3)†	3.0(0.4)†	2.5(0.3)†	3.1(0.3)#	LQ
	275.7(1.9)	271.7(1.8)*	280.6(2.4)	276.8(2.8)	290.2(3.9)†	282.7(3.8)	L
GRADE							
Below Modal Grade	14.8(0.6)*	15.6(1.0)*	16.8(0.9)	21.7(1.0)†	23.9(1.1)†	20.6(1.6)#	L
	272.7(1.1)*	274.1(1.6)*	277.3(1.6)*	281.8(1.7)†	284.5(1.4)†	284.2(1.6)#	L
At Modal Grade	75.3(0.7)	74.9(1.0)	75.3(1.2)	70.2(1.0)†	70.1(1.0)†	73.1(1.7)	L
	304.7(1.0)*	302.5(0.9)*	306.7(0.9)*	310.9(0.8)†	313.3(0.8)†	311.6(0.9)#	L
Above Modal Grade	9.8(0.5)*	9.5(0.7)*	7.9(0.7)	8.1(0.6)	6.1(0.5)†	6.3(0.6)#	L
	309.3(1.0)	306.5(1.4)*	309.1(3.0)	310.6(1.8)	317.7(2.4)†	315.9(3.1)#	L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 17

Average mathematics scale scores across assessment years

Weighted percentages and average mathematics scale scores and jackknifed standard errors (continued)

	1978	1982	1986	1990	1992	1994	TREND TESTS
TYPE OF SCHOOL							
Public	94.4(1.0)*	91.6(1.6)	96.0(1.4)*	92.8(1.8)	91.3(2.2)	87.8(2.3)#	L
	299.6(1.0)*	297.3(0.9)*	301.2(1.0)	303.5(0.8)†	305.3(0.9)†	304.4(0.9)#	L
Non-Public	5.6(1.0)*	8.4(1.6)	4.0(1.4)*	7.2(1.8)	8.7(2.2)	12.2(2.3)#	L
	314.3(3.2)	311.4(1.7)	320.1(9.8)	317.7(6.6)	320.4(3.0)	319.4(4.0)	N
QUARTILES							
Upper	25.0(1.1)	25.0(1.0)	25.0(1.1)	25.6(1.2)	24.9(1.0)	25.0(1.4)	N
	338.5(0.4)*	336.1(0.6)†*	339.8(0.7)	341.1(0.8)†	342.0(0.7)†	341.9(1.1)#	L
Middle Two	50.0(0.7)	50.0(0.6)	50.0(1.1)	49.1(1.1)	50.1(0.9)	50.0(1.2)	N
	301.7(0.3)*	298.8(0.3)†*	301.4(0.5)*	304.7(0.5)†*	307.5(0.4)†	306.5(0.4)#	LQ
Lower	25.0(1.0)	25.0(1.2)	25.0(0.9)	25.4(1.0)	25.0(1.0)	25.0(1.1)	N
	259.6(0.5)*	260.2(0.7)*	265.2(0.9)†*	267.5(0.9)†	269.9(0.9)†	269.9(0.8)#	L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 9

Average mathematics scale scores across assessment years

Weighted percentages of observations with average mathematics scale scores at or above 150

	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	96.7(0.3)*	97.1(0.3)*	97.9(0.3)†*	99.1(0.2)†	99.0(0.2)†	99.0(0.2)#	L
GENDER							
Male	96.2(0.5)*	96.5(0.5)*	98.0(0.5)†	99.0(0.3)†	99.0(0.3)†	99.1(0.3)#	L
Female	97.2(0.3)*	97.6(0.3)*	97.8(0.4)	99.1(0.3)†	99.0(0.3)†	98.9(0.3)#	L
RACE/ETHNICITY							
White	98.3(0.2)*	98.5(0.3)*	98.8(0.2)	99.6(0.2)†	99.6(0.1)†	99.6(0.2)#	L
Black	88.4(1.0)*	90.2(1.0)*	93.9(1.4)†	96.9(0.9)†	96.6(1.1)†	97.4(1.0)#	L
Hispanic	93.0(1.2)	94.3(1.2)	96.4(1.3)	98.0(0.8)†	97.2(1.3)	97.2(1.2)#	L
Other	98.1(1.6)	99.2(0.5)	97.4(2.2)	99.2(0.8)	99.8(0.3)	98.1(1.2)	N
GRADE							
Below Modal Grade	89.4(0.8)*	91.5(1.0)*	94.1(0.8)†*	97.5(0.6)†	97.3(0.6)†	97.4(0.8)#	L
At Modal Grade	99.3(0.2)*	99.5(0.1)	99.8(0.1)†	99.9(0.1)†	99.9(0.1)†	99.8(0.1)#	L
Above Modal Grade	99.6(0.6)	99.8(0.7)	100.0(0.0)	100.0(0.0)	100.0(0.0)	*** (***)	N
REGION							
Northeast	97.9(0.4)	98.3(0.4)	98.4(0.5)	99.3(0.3)†	99.5(0.2)†	99.3(0.5)#	L
Southeast	94.0(0.6)*	94.6(0.8)*	97.1(0.7)†	98.2(0.7)†	98.1(0.7)†	99.0(0.4)#	L
Central	98.2(0.3)*	97.9(0.5)*	98.5(0.5)	99.4(0.3)†	99.4(0.3)†	99.4(0.3)#	L
West	96.2(0.6)	97.5(0.6)	97.5(0.9)	99.3(0.3)†	98.8(0.5)†	98.4(0.6)#	L
PARENTS' EDUCATION LEVEL							
Less Than H.S.	92.2(1.1)	90.9(1.6)*	93.9(1.8)	97.9(1.2)†	98.1(1.1)†	97.2(1.8)#	L
Graduated H.S.	97.1(0.4)*	97.6(0.4)	97.4(0.5)	98.7(0.4)†	98.2(0.6)	98.7(0.5)#	L
Some Educ. After H.S.	98.5(0.6)	98.2(0.6)	98.9(1.0)	99.1(0.6)	99.5(0.3)	99.7(0.2)#	L
Graduated College	98.8(0.3)	98.6(0.3)	99.0(0.3)	99.5(0.3)	99.3(0.3)	99.3(0.3)	L
Unknown	95.6(0.5)*	96.3(0.5)*	97.4(0.6)	99.0(0.3)†	98.8(0.4)†	98.9(0.4)#	L
TYPE OF SCHOOL							
Public	96.4(0.3)*	96.8(0.4)*	97.7(0.3)†*	99.0(0.2)†	98.8(0.3)†	98.9(0.3)#	L
Non-Public	99.0(1.0)	99.0(0.4)	98.7(0.8)	99.7(0.3)	99.8(0.1)	99.8(0.3)	N
QUARTILES							
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	99.9(0.1)	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Lower	86.9(0.9)*	88.4(1.2)*	91.6(1.1)†*	96.3(0.8)†	95.9(0.9)†	96.1(0.9)#	L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 9

Average mathematics scale scores across assessment years

Weighted percentages of observations with average mathematics scale scores at or above 200

	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	70.4(0.9)*	71.4(1.2)*	74.1(1.2)*	81.5(1.0)†	81.4(0.8)†	82.0(0.7)#	L
GENDER							
Male	68.9(1.0)*	68.8(1.3)*	74.0(1.4)†*	80.6(1.0)†	81.9(1.0)†	82.3(0.9)#	L
Female	72.0(1.1)*	74.0(1.3)*	74.3(1.3)*	82.3(1.3)†	80.9(1.1)†	81.7(0.9)#	L
RACE/ETHNICITY							
White	76.3(1.0)*	76.8(1.2)*	79.6(1.3)*	86.9(0.9)†	86.9(0.7)†	87.0(0.8)#	L
Black	42.0(1.4)*	46.1(2.4)*	53.4(2.5)†*	60.0(2.8)†	59.8(2.8)†	65.9(2.6)#	L
Hispanic	54.2(2.8)	55.7(2.3)	57.6(2.9)	68.4(3.0)†	65.0(2.9)†	63.5(3.1)#	L
Other	80.3(3.6)	85.2(3.4)	70.4(8.0)	87.0(5.4)	87.8(3.1)	79.6(3.9)	N
GRADE							
Below Modal Grade	39.6(1.6)*	41.7(2.3)*	48.0(1.9)†*	60.3(1.9)†	61.0(1.4)†	64.0(1.6)#	L
At Modal Grade	81.5(0.9)*	84.4(0.9)*	87.5(1.1)†*	92.8(0.9)†	93.6(0.5)†*	91.0(0.8)#	LQ
Above Modal Grade	85.5(6.6)	93.4(3.4)	93.2(9.1)	89.0(10.9)	100.0(0.0)	*** (***)	N
REGION							
Northeast	78.7(2.3)*	78.0(2.1)*	77.9(3.2)	85.9(2.2)	85.5(1.8)	87.0(1.9)#	L
Southeast	60.3(1.8)*	62.5(2.3)*	70.6(2.7)†*	75.1(2.8)†	72.9(2.0)†*	80.7(1.0)#	L
Central	75.9(1.7)*	73.8(2.7)*	77.6(2.5)	83.7(1.3)†	85.3(1.4)†	85.0(1.5)#	L
West	65.6(1.7)*	71.9(2.2)	70.5(2.9)	81.4(1.8)†	81.6(2.1)†	76.4(1.6)#	L
PARENTS' EDUCATION LEVEL							
Less Than H.S.	51.8(2.7)	51.0(2.6)	50.1(3.9)	63.4(4.7)	71.0(4.1)†	62.1(4.5)#	L
Graduated H.S.	71.7(1.4)	72.1(1.4)	72.2(2.1)	79.3(1.6)†	75.5(1.9)	77.4(1.9)#	L
Some Educ. After H.S.	80.7(2.0)*	77.9(2.5)*	80.7(2.7)*	85.7(2.3)	87.2(2.0)	90.0(1.9)#	L
Graduated College	82.1(1.3)*	80.3(1.5)*	82.6(1.2)*	87.2(1.3)†	86.5(1.0)†	87.0(0.8)#	L
Unknown	63.6(1.3)*	64.9(2.2)*	67.7(1.6)*	77.1(1.4)†	77.7(1.4)†	77.5(1.2)#	L
TYPE OF SCHOOL							
Public	68.8(0.9)*	69.4(1.2)*	72.7(1.4)*	80.5(1.1)†	79.7(0.9)†	80.6(0.8)#	L
Non-Public	83.3(1.9)*	84.3(2.1)*	81.8(2.3)*	89.3(1.8)	92.2(1.2)†	92.3(1.3)#	LQ
QUARTILES							
Upper	99.6(0.1)	99.7(0.2)	99.9(0.2)	100.0(0.0)	99.9(0.1)	100.0(0.0)#	L
Middle Two	82.2(0.6)*	84.3(0.7)*	89.5(0.9)†*	95.8(0.5)†	95.7(0.4)†	96.1(0.5)#	L
Lower	17.7(0.9)*	17.5(1.6)*	17.6(1.5)*	34.3(2.2)†	34.1(1.4)†	35.7(1.3)#	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 9

Average mathematics scale scores across assessment years

Weighted percentages of observations with average mathematics scale scores at or above 250

	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	19.6(0.7)*	18.8(1.0)*	20.7(0.9)*	27.7(0.9)†	27.8(0.9)†	29.9(1.1)#	LQ
GENDER							
Male	19.2(0.6)*	18.1(1.1)*	20.9(1.1)*	27.5(1.0)†	29.4(1.2)†	31.5(1.6)#	LQ
Female	19.9(1.0)*	19.6(1.1)*	20.6(1.3)*	27.9(1.3)†	26.3(1.5)†	28.3(1.3)#	L
RACE/ETHNICITY							
White	22.9(0.9)*	21.8(1.1)*	24.6(1.0)*	32.7(1.0)†	32.4(1.0)†	35.3(1.3)#	LQ
Black	4.1(0.6)*	4.4(0.8)*	5.6(0.9)*	9.4(1.7)†	9.6(1.4)†	11.1(1.7)#	L
Hispanic	9.2(2.5)	7.8(1.7)	7.3(2.8)	11.3(3.5)	11.7(2.5)	9.7(1.8)	N
Other	25.1(3.6)	38.3(4.7)	25.1(6.4)	31.7(3.6)	38.7(5.2)	31.2(5.5)	N
GRADE							
Below Modal Grade	2.9(0.6)*	3.2(0.4)*	4.2(0.5)*	6.9(0.6)†	7.6(0.9)†	9.8(1.1)#	LQ
At Modal Grade	25.4(0.9)*	25.4(1.1)*	29.1(1.1)†*	38.9(1.3)†	39.9(1.1)†	39.8(1.4)#	L
Above Modal Grade	42.2(7.5)	62.4(16.3)	48.2(14.5)	35.8(13.9)	67.1(17.2)	***(***)	N
REGION							
Northeast	25.9(1.6)*	23.8(1.4)*	24.8(2.7)*	34.4(2.1)†	32.4(2.1)	37.2(2.8)#	LQ
Southeast	13.4(0.8)*	13.6(1.7)*	17.2(2.4)*	24.0(2.0)†	20.3(1.6)†	27.3(2.4)#	L
Central	23.2(1.4)	19.9(2.5)*	24.7(1.8)	27.5(1.8)	31.4(1.9)†	30.3(2.6)#	L
West	14.9(1.1)*	18.6(1.4)*	16.3(2.2)*	25.6(1.6)†	27.1(2.5)†	26.0(1.2)#	L
PARENTS' EDUCATION LEVEL							
Less Than H.S.	7.5(1.2)	7.1(1.5)	6.4(2.3)	9.9(2.6)	15.0(2.2)†	9.5(2.7)	L
Graduated H.S.	18.8(1.1)	16.4(1.3)*	17.4(2.1)	23.6(1.6)	20.5(2.1)	24.0(1.8)#	L
Some Educ. After H.S.	29.2(1.9)	23.7(2.9)*	26.6(2.6)	35.0(4.2)	36.9(2.4)	36.9(3.8)	L
Graduated College	30.4(1.3)*	27.2(1.3)*	29.6(1.4)*	36.6(1.7)†	34.8(1.4)	37.3(1.4)#	LQ
Unknown	13.4(1.1)*	13.6(1.3)*	13.3(1.1)*	19.7(1.1)†	21.7(1.3)†	22.5(1.6)#	LQ
TYPE OF SCHOOL							
Public	18.5(0.7)*	17.3(0.9)*	19.1(1.1)*	26.8(1.0)†	26.1(0.9)†	27.9(1.2)#	LQ
Non-Public	28.4(2.0)*	28.6(2.6)*	28.9(2.7)*	35.2(3.3)	38.6(2.7)†	44.4(4.0)#	LQ
QUARTILES							
Upper	59.7(1.4)*	60.0(1.6)*	67.9(1.4)†*	79.8(1.3)†	79.9(1.3)†	83.0(2.1)#	L
Middle Two	9.3(0.6)*	7.7(0.7)*	7.5(0.7)*	15.5(0.8)†	15.6(1.0)†	18.1(1.3)#	LQ
Lower	0.1(0.1)	0.0(0.1)	0.0(0.0)	0.1(0.2)	0.1(0.1)	0.1(0.1)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 9

Average mathematics scale scores across assessment years

Weighted percentages of observations with average mathematics scale scores at or above 300

	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	0.8(0.1)	0.6(0.1)	0.6(0.2)	1.2(0.3)	1.2(0.3)	1.3(0.4)	L
GENDER							
Male	0.7(0.2)	0.6(0.1)	0.7(0.3)	1.3(0.4)	1.4(0.3)	1.4(0.4)	L
Female	0.8(0.2)	0.5(0.1)	0.6(0.3)	1.0(0.3)	1.0(0.4)	1.1(0.4)	N
RACE/ETHNICITY							
White	0.9(0.2)	0.6(0.1)	0.8(0.3)	1.5(0.4)	1.4(0.3)	1.5(0.4)	L
Black	0.0(0.1)	0.0(0.1)	0.1(0.1)	0.1(0.1)	0.1(0.1)	0.0(0.1)	N
Hispanic	0.2(0.5)	0.0(0.0)	0.1(0.2)	0.2(0.2)	0.1(0.5)	0.0(0.1)	N
Other	1.9(0.9)	3.7(2.1)	0.8(0.8)	2.0(1.0)	4.0(1.7)	2.3(1.5)	N
GRADE							
Below Modal Grade	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.1(0.1)	0.0(0.0)	0.0(0.1)	N
At Modal Grade	1.0(0.2)	0.7(0.1)	0.9(0.3)	1.8(0.4)	1.9(0.4)	1.8(0.5)	L
Above Modal Grade	4.9(4.4)	9.4(6.5)	6.1(5.4)	1.0(2.5)	7.2(7.6)	*** (***)	N
REGION							
Northeast	1.3(0.5)	0.9(0.3)	1.0(0.4)	2.1(0.7)	1.7(0.7)	2.3(1.0)	N
Southeast	0.3(0.2)	0.3(0.1)	0.3(0.2)	1.2(0.6)	0.7(0.2)	0.9(0.5)	L
Central	1.1(0.3)	0.6(0.3)	1.0(0.7)	0.6(0.2)	1.4(0.6)	1.1(0.3)	N
West	0.4(0.2)	0.6(0.1)	0.2(0.2)	0.9(0.4)	1.0(0.5)	0.9(0.4)	N
PARENTS' EDUCATION LEVEL							
Less Than H.S.	0.1(0.2)	0.0(0.1)	0.0(0.0)	0.0(0.0)	0.1(0.1)	0.0(0.0)	N
Graduated H.S.	0.6(0.2)	0.4(0.2)	0.4(0.4)	0.4(0.4)	0.4(0.5)	0.7(0.4)	N
Some Educ. After H.S.	1.6(0.6)	0.5(0.5)	1.2(0.9)	1.4(0.8)	2.0(0.8)	2.2(1.5)	N
Graduated College	1.6(0.5)	1.0(0.3)	1.2(0.5)	2.1(0.5)	1.8(0.5)	1.9(0.6)	N
Unknown	0.3(0.1)	0.4(0.2)	0.2(0.1)	0.5(0.3)	0.7(0.2)	0.5(0.3)	N
TYPE OF SCHOOL							
Public	0.7(0.2)	0.5(0.1)	0.6(0.2)	1.1(0.3)	1.1(0.3)	1.1(0.4)	L
Non-Public	1.2(0.4)	1.0(0.6)	1.1(0.6)	1.8(1.2)	1.9(0.7)	2.2(0.8)	N
QUARTILES							
Upper	3.0(0.5)	2.2(0.3)	2.6(0.8)	4.6(1.1)	4.7(1.0)	5.0(1.4)	L
Middle Two	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.1(0.1)	0.1(0.0)	0.0(0.0)	N
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 9

Average mathematics scale scores across assessment years

Weighted percentages of observations with average mathematics scale scores at or above 350

	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
GENDER							
Male	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Female	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
RACE/ETHNICITY							
White	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Black	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Hispanic	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Other	0.0(0.0)	0.1(0.2)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
GRADE							
Below Modal Grade	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
At Modal Grade	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Above Modal Grade	0.0(0.0)	0.5(0.8)	0.0(0.0)	0.0(0.0)	0.0(0.0)	*** (***)	N
REGION							
Northeast	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.0(0.0)	N
Southeast	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Central	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
West	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	N
PARENTS' EDUCATION LEVEL							
Less Than H.S.	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Graduated H.S.	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Some Educ. After H.S.	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Graduated College	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Unknown	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
TYPE OF SCHOOL							
Public	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Non-Public	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.0(0.0)	0.0(0.0)	0.1(0.1)	N
QUARTILES							
Upper	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.0(0.1)	N
Middle Two	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 13

Average mathematics scale scores across assessment years

Weighted percentages of observations with average mathematics scale scores at or above 150

	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	99.8(0.1)*	100.0(0.0)†	100.0(0.0)†	100.0(0.0)†	100.0(0.0)†	100.0(0.0)#	LQ
GENDER							
Male	99.7(0.1)	100.0(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)†	99.9(0.1)	LQ
Female	99.8(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)#	LQ
RACE/ETHNICITY							
White	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Black	98.6(0.4)*	99.8(0.2)†	100.0(0.0)†	100.0(0.0)†	99.9(0.1)†	99.9(0.1)#	LQ
Hispanic	99.6(0.3)	99.9(0.1)	100.0(0.3)	99.9(0.2)	100.0(0.0)	100.0(0.1)	N
Other	99.8(0.4)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	99.9(0.2)	N
GRADE							
Below Modal Grade	99.2(0.2)*	99.9(0.1)†	100.0(0.1)†	100.0(0.0)†	100.0(0.0)†	99.9(0.1)#	LQ
At Modal Grade	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Above Modal Grade	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	*** (***)	N
REGION							
Northeast	99.9(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)#	L
Southeast	99.4(0.2)	99.9(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)#	LQ
Central	99.9(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
West	99.8(0.1)	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.0)	99.9(0.1)	N
PARENTS' EDUCATION LEVEL							
Less Than H.S.	99.5(0.2)	99.9(0.2)	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.0)#	L
Graduated H.S.	99.9(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Some Educ. After H.S.	99.9(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.1)	100.0(0.0)	N
Graduated College	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Unknown	99.1(0.3)	99.9(0.1)†	100.0(0.2)	100.0(0.1)†	100.0(0.0)†	99.9(0.3)	L
TYPE OF SCHOOL							
Public	99.7(0.1)*	100.0(0.0)†	100.0(0.0)†	100.0(0.0)†	100.0(0.0)†	100.0(0.0)#	LQ
Non-Public	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	99.9(0.2)	N
QUARTILES							
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Lower	99.0(0.3)*	99.9(0.1)†	100.0(0.1)†	100.0(0.1)†	100.0(0.0)†	99.9(0.1)#	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 13

Average mathematics scale scores across assessment years

Weighted percentages of observations with average mathematics scale scores at or above 200

	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	94.6(0.5)*	97.7(0.4)†	98.6(0.2)†	98.5(0.2)†	98.7(0.3)†	98.5(0.3)#	LQ
GENDER							
Male	93.9(0.5)*	97.5(0.6)†	98.5(0.3)†	98.2(0.3)†	98.8(0.4)†	98.3(0.4)#	LQ
Female	95.2(0.5)*	98.0(0.3)†	98.6(0.3)†	98.9(0.2)†	98.6(0.2)†	98.7(0.3)#	LQ
RACE/ETHNICITY							
White	97.6(0.3)*	99.1(0.1)†	99.3(0.3)†	99.4(0.1)†	99.6(0.2)†	99.3(0.2)#	LQ
Black	79.7(1.5)*	90.2(1.6)†	95.4(0.9)†	95.4(1.1)†	95.0(1.4)†	95.6(1.6)#	LQ
Hispanic	86.4(0.9)*	95.9(0.9)†	96.9(1.4)†	96.8(1.1)†	98.1(0.7)†	97.1(1.3)#	LQ
Other	97.3(1.5)	99.1(0.6)	99.6(0.4)	98.3(1.0)	99.0(0.8)	99.3(0.6)	N
GRADE							
Below Modal Grade	86.2(1.1)*	93.6(1.0)†	96.4(0.6)†	96.3(0.5)†	97.1(0.6)†	96.7(0.7)#	LQ
At Modal Grade	97.9(0.3)*	99.4(0.2)†	99.6(0.1)†	99.8(0.1)†	99.7(0.1)†	99.6(0.2)#	LQ
Above Modal Grade	99.2(0.9)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	*** (***)	N
REGION							
Northeast	96.5(0.9)*	99.0(0.3)†	99.2(0.2)†	99.1(0.6)	98.6(0.7)	99.5(0.3)#	LQ
Southeast	90.1(1.6)*	95.6(1.0)†	98.3(0.6)†	97.8(0.6)†	98.0(0.7)†	98.2(0.5)#	LQ
Central	96.8(0.4)	98.6(0.5)†	98.4(1.0)	99.0(0.3)†	99.3(0.4)†	98.7(0.9)	L
West	94.0(0.9)*	97.6(0.9)†	98.3(0.5)†	98.3(0.5)†	98.8(0.4)†	98.0(0.5)#	LQ
PARENTS' EDUCATION LEVEL							
Less Than H.S.	89.2(1.1)*	95.3(1.2)†	96.5(1.6)†	96.4(1.3)†	98.0(0.9)†	96.9(1.6)#	LQ
Graduated H.S.	96.0(0.4)*	98.0(0.4)†	98.8(0.5)†	98.5(0.5)†	98.3(0.7)†	98.2(0.5)#	LQ
Some Educ. After H.S.	97.6(0.6)	98.6(0.3)	99.3(0.4)†	99.7(0.3)†	99.6(0.2)†	99.3(0.4)#	LQ
Graduated College	98.8(0.2)*	98.9(0.4)	99.2(0.3)	99.3(0.2)	99.3(0.2)	99.6(0.2)#	L
Unknown	85.5(1.3)*	94.1(1.6)†	95.2(1.7)†	94.2(1.6)†	95.4(1.4)†	94.9(1.6)#	LQ
TYPE OF SCHOOL							
Public	94.1(0.5)*	97.5(0.4)†	98.5(0.3)†	98.4(0.2)†	98.5(0.3)†	98.5(0.3)#	LQ
Non-Public	99.0(0.4)	99.5(0.3)	98.9(0.6)	99.7(0.3)	99.9(0.1)	98.7(1.1)	N
QUARTILES							
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	99.6(0.1)*	100.0(0.0)†	100.0(0.0)†	100.0(0.0)†	100.0(0.0)†	100.0(0.0)#	LQ
Lower	79.0(1.2)*	91.0(1.2)†	94.2(0.8)†	94.1(0.8)†	94.9(1.0)†	94.0(1.2)#	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 13

Average mathematics scale scores across assessment years

Weighted percentages of observations with average mathematics scale scores at or above 250

	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	64.9(1.2)*	71.4(1.2)†*	73.3(1.6)†	74.7(1.0)†	77.9(1.1)†	78.1(1.1)#	L
GENDER							
Male	63.9(1.3)*	71.3(1.4)†*	73.8(1.8)†	75.1(1.8)†	78.1(1.6)†	78.9(1.5)#	L
Female	65.9(1.2)*	71.4(1.3)†*	72.7(1.9)†	74.4(1.3)†	77.7(1.1)†	77.3(1.0)#	L
RACE/ETHNICITY							
White	72.9(0.9)*	78.3(0.9)†*	78.9(1.7)†*	82.0(1.0)†	84.9(1.1)†	85.5(0.9)#	L
Black	28.7(2.1)*	37.9(2.5)†*	49.0(3.7)†	48.7(3.6)†	51.0(2.7)†	51.0(3.9)#	LQ
Hispanic	36.0(2.9)*	52.2(2.5)†	56.0(5.0)†	56.7(3.3)†	63.3(2.7)†	59.2(2.2)#	LQ
Other	68.6(4.3)*	75.3(5.9)	85.7(4.7)†	76.5(5.0)	82.9(3.2)†	84.8(3.0)#	L
GRADE							
Below Modal Grade	39.2(1.6)*	46.0(2.0)†*	51.3(2.1)†*	54.2(1.7)†*	61.6(2.1)†	63.1(1.7)#	L
At Modal Grade	75.2(1.1)*	81.2(1.0)†*	83.9(1.3)†	86.5(0.9)†	87.6(0.8)†	86.9(0.9)#	LQ
Above Modal Grade	88.7(5.1)	92.3(4.7)	96.8(4.6)	69.3(14.1)	100.0(0.0)	*** (***)	N
REGION							
Northeast	73.4(2.4)*	79.4(1.5)*	80.5(2.2)	78.2(2.3)*	78.4(2.5)*	86.7(1.4)#	L
Southeast	53.5(3.6)*	60.3(2.0)*	68.6(2.3)†	70.1(2.4)†	74.8(2.7)†	73.9(3.1)#	L
Central	70.4(1.9)	75.9(2.4)	70.7(6.3)	77.9(2.8)	80.6(1.8)†	78.9(3.4)#	L
West	60.5(2.4)*	69.0(3.0)	73.9(2.2)†	72.9(1.8)†	77.7(2.0)†	74.7(1.8)#	LQ
PARENTS' EDUCATION LEVEL							
Less Than H.S.	44.6(1.7)*	51.2(2.3)	54.7(3.9)	55.8(2.6)†	59.7(2.3)†	57.2(4.4)#	L
Graduated H.S.	64.9(1.2)*	66.7(1.0)*	68.7(1.5)	68.2(1.9)	67.9(2.4)	71.6(1.6)#	L
Some Educ. After H.S.	75.5(1.5)*	80.5(1.3)	80.7(1.9)	84.6(1.5)†	85.8(1.3)†	82.2(1.7)#	L
Graduated College	83.4(1.1)*	84.2(1.5)	83.5(1.6)	84.1(1.1)	87.0(1.0)	87.6(1.1)#	L
Unknown	39.3(1.5)*	52.7(3.9)†	45.2(4.4)	46.3(3.6)	54.7(3.0)†	53.9(3.6)#	L
TYPE OF SCHOOL							
Public	63.3(1.2)*	69.7(1.3)†*	72.9(1.7)†	73.3(1.2)†	76.3(1.2)†	76.7(1.2)#	L
Non-Public	80.8(1.7)	85.1(1.6)	81.9(3.3)	87.0(2.0)	89.7(2.1)†	88.5(2.6)#	L
QUARTILES							
Upper	98.8(0.3)*	99.8(0.1)†	100.0(0.1)†	99.9(0.1)†	100.0(0.0)†	100.0(0.1)#	LQ
Middle Two	74.0(0.6)*	83.9(0.8)†*	88.2(1.1)†*	89.6(0.8)†*	93.1(0.9)†	93.5(0.7)#	LQ
Lower	12.9(0.6)*	17.8(0.9)†*	16.7(1.5)*	19.7(1.7)†	25.5(2.2)†	25.3(1.7)#	L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 13

Average mathematics scale scores across assessment years

Weighted percentages of observations with average mathematics scale scores at or above 300

	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	18.0(0.7)	17.4(0.9)	15.8(1.0)*	17.3(1.0)	18.9(1.0)	21.3(1.4)#	LQ
GENDER							
Male	18.4(0.9)*	18.9(1.2)	17.6(1.1)*	19.0(1.2)	20.7(1.1)	23.9(1.6)#	LQ
Female	17.5(0.7)	15.9(1.0)	14.1(1.3)	15.7(1.0)	17.2(1.4)	18.7(1.4)	Q
RACE/ETHNICITY							
White	21.4(0.7)	20.5(1.0)*	18.6(1.2)*	21.0(1.2)	22.8(1.3)	25.6(1.6)#	LQ
Black	2.3(0.5)	2.9(1.0)	4.0(1.4)	3.9(1.6)	4.0(0.7)	6.4(2.4)	L
Hispanic	4.0(1.0)	6.3(1.0)	5.5(1.1)	6.4(1.7)	7.0(1.2)	6.4(1.8)	N
Other	27.4(4.8)	24.2(3.9)	28.1(6.2)	22.2(8.3)	30.1(4.7)	32.4(4.5)	N
GRADE							
Below Modal Grade	4.5(0.5)*	4.3(0.7)*	4.0(0.7)*	4.5(0.6)*	7.3(1.0)	8.6(1.1)#	LQ
At Modal Grade	23.2(0.9)*	21.9(0.9)*	21.4(1.1)*	24.6(1.3)	25.6(1.4)	28.5(1.6)#	LQ
Above Modal Grade	47.9(9.2)	60.6(7.2)	45.5(7.9)	25.9(24.9)	92.1(7.5)†	*** (***)	N
REGION							
Northeast	24.2(1.9)	23.9(2.1)	22.5(2.4)	21.3(2.4)	19.7(2.4)*	30.3(2.6)	Q
Southeast	11.6(1.5)	10.2(1.3)	10.0(1.3)	13.7(1.4)	18.2(2.7)	15.3(1.7)	L
Central	20.4(1.3)	20.1(1.8)	12.8(2.6)†	17.4(2.4)	20.6(1.7)	21.2(3.3)	Q
West	14.8(1.2)	15.1(1.8)	18.3(2.3)	16.9(1.8)	17.3(1.4)	19.7(1.8)#	L
PARENTS' EDUCATION LEVEL							
Less Than H.S.	5.8(0.6)	5.6(0.7)	4.5(1.3)	4.7(1.4)	4.4(1.6)	5.8(1.4)	N
Graduated H.S.	14.8(0.7)*	10.8(0.7)†	8.0(0.9)†	8.7(0.9)†	9.6(1.2)†	11.3(1.1)#	LQ
Some Educ. After H.S.	22.2(1.3)	20.4(1.2)	16.9(2.2)	19.8(1.8)	19.3(1.6)	22.2(2.1)	Q
Graduated College	32.6(1.5)	30.0(1.6)	26.0(1.4)†	26.9(1.5)†	28.2(1.5)	31.1(2.1)	Q
Unknown	5.4(0.9)	7.2(1.9)	4.3(1.9)	4.2(1.3)	6.1(1.6)	5.8(1.3)	N
TYPE OF SCHOOL							
Public	17.0(0.8)	16.4(1.0)	15.6(1.0)	16.7(1.1)	18.0(1.0)	20.0(1.4)	LQ
Non-Public	26.9(1.8)	26.3(3.1)	22.0(6.8)	23.2(2.5)	25.9(3.7)	30.7(3.7)	N
QUARTILES							
Upper	56.9(0.9)*	59.1(1.5)*	59.6(1.9)*	63.2(1.6)†*	67.4(1.6)†	73.5(2.6)#	LQ
Middle Two	7.4(0.4)	5.3(0.4)†	1.9(0.6)†*	3.1(0.5)†*	4.2(0.6)†	5.8(0.9)	LQ
Lower	0.1(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 13

Average mathematics scale scores across assessment years

Weighted percentages of observations with average mathematics scale scores at or above 350

	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	1.0(0.2)	0.5(0.1)	0.4(0.1)†	0.4(0.1)†	0.4(0.2)	0.6(0.2)	Q
GENDER							
Male	1.1(0.2)	0.7(0.2)	0.5(0.2)	0.5(0.2)	0.5(0.2)	0.8(0.3)	N
Female	0.9(0.2)	0.4(0.2)	0.3(0.1)	0.2(0.1)†	0.3(0.3)	0.5(0.3)	Q
RACE/ETHNICITY							
White	1.2(0.2)	0.6(0.1)	0.4(0.1)†	0.4(0.2)†	0.4(0.2)†	0.7(0.3)	Q
Black	0.0(0.1)	0.0(0.0)	0.1(0.1)	0.1(0.3)	0.1(0.3)	0.3(0.6)	N
Hispanic	0.1(0.1)	0.0(0.1)	0.2(0.4)	0.1(0.1)	0.0(0.1)	0.0(0.1)	N
Other	3.7(2.1)	1.0(0.5)	1.4(1.1)	0.5(0.7)	1.2(1.3)	1.8(1.0)	N
GRADE							
Below Modal Grade	0.1(0.1)	0.0(0.1)	0.0(0.0)	0.0(0.0)	0.1(0.1)	0.1(0.1)	N
At Modal Grade	1.3(0.2)	0.6(0.1)†	0.5(0.2)†	0.5(0.2)†	0.5(0.1)†	0.8(0.3)	Q
Above Modal Grade	9.0(4.6)	7.7(4.2)	4.6(6.5)	4.9(6.5)	14.8(31.5)	*** (***)	N
REGION							
Northeast	1.3(0.5)	1.0(0.4)	0.7(0.3)	0.7(0.4)	0.4(0.3)	1.4(0.6)	N
Southeast	0.5(0.2)	0.1(0.1)	0.2(0.2)	0.1(0.1)	0.5(0.5)	0.2(0.1)	N
Central	1.2(0.3)	0.6(0.2)	0.3(0.3)	0.3(0.2)†	0.3(0.2)†	0.7(0.7)	N
West	0.8(0.3)	0.3(0.1)	0.4(0.3)	0.3(0.2)	0.3(0.1)	0.4(0.2)	N
PARENTS' EDUCATION LEVEL							
Less Than H.S.	0.1(0.1)	0.0(0.1)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	N
Graduated H.S.	0.5(0.1)	0.1(0.1)	0.1(0.1)	0.0(0.1)†	0.1(0.1)	0.1(0.1)#	L
Some Educ. After H.S.	1.1(0.2)	0.5(0.2)	0.5(0.4)	0.4(0.3)	0.2(0.2)†	1.0(0.6)	N
Graduated College	2.6(0.6)	1.2(0.4)	0.7(0.3)†	0.7(0.3)†	0.7(0.4)†	1.0(0.4)#	LQ
Unknown	0.1(0.1)	0.0(0.1)	0.0(0.0)	0.1(0.1)	0.0(0.2)	0.1(0.1)	N
TYPE OF SCHOOL							
Public	0.9(0.2)	0.5(0.1)	0.4(0.1)	0.3(0.1)†	0.3(0.2)	0.6(0.2)	Q
Non-Public	1.4(0.4)	1.0(0.3)	0.1(0.2)†	0.7(0.4)	0.7(0.4)	1.0(1.0)	N
QUARTILES							
Upper	3.9(0.6)	2.1(0.4)	1.5(0.5)†	1.4(0.5)†	1.5(0.6)†	2.5(0.9)	Q
Middle Two	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 17

Average mathematics scale scores across assessment years

Weighted percentages of observations with average mathematics scale scores at or above 150

	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
GENDER							
Male	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Female	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
RACE/ETHNICITY							
White	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Black	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Hispanic	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Other	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
GRADE							
Below Modal Grade	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
At Modal Grade	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Above Modal Grade	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
REGION							
Northeast	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Southeast	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Central	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
West	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
PARENTS' EDUCATION LEVEL							
Less Than H.S.	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Graduated H.S.	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Some Educ. After H.S.	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Graduated College	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Unknown	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
TYPE OF SCHOOL							
Public	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Non-Public	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
QUARTILES							
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Lower	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 17

Average mathematics scale scores across assessment years

Weighted percentages of observations with average mathematics scale scores at or above 200

	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	99.8(0.1)*	99.9(0.0)*	99.9(0.1)	100.0(0.1)	100.0(0.0)†	100.0(0.0)#	L
GENDER							
Male	99.9(0.1)	100.0(0.1)	99.9(0.1)	99.9(0.1)	100.0(0.0)	100.0(0.0)	N
Female	99.7(0.1)*	99.9(0.0)*	100.0(0.1)	100.0(0.1)	100.0(0.0)†	100.0(0.0)#	L
RACE/ETHNICITY							
White	100.0(0.0)	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Black	98.8(0.3)*	99.7(0.2)	100.0(0.1)†	99.9(0.2)†	100.0(0.1)†	100.0(0.0)#	LQ
Hispanic	99.3(0.4)	99.8(0.3)	99.4(1.2)	99.6(0.7)	100.0(0.0)	100.0(0.0)	N
Other	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
GRADE							
Below Modal Grade	99.1(0.3)*	99.7(0.2)	99.8(0.5)	99.9(0.2)	100.0(0.0)†	100.0(0.0)#	L
At Modal Grade	99.9(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Above Modal Grade	99.9(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
REGION							
Northeast	99.9(0.1)	99.9(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Southeast	99.6(0.2)	99.9(0.1)	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.0)#	L
Central	99.9(0.1)	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
West	99.8(0.1)	99.9(0.1)	99.8(0.3)	99.9(0.2)	100.0(0.0)	100.0(0.0)#	N
PARENTS' EDUCATION LEVEL							
Less Than H.S.	99.5(0.3)	99.8(0.1)	100.0(0.0)	99.9(0.3)	100.0(0.1)	100.0(0.0)	N
Graduated H.S.	99.8(0.1)	99.9(0.0)	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.0)	N
Some Educ. After H.S.	99.9(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Graduated College	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Unknown	99.1(0.4)	99.5(0.5)	100.0(0.0)	99.3(1.1)	100.0(0.0)	100.0(0.0)#	N
TYPE OF SCHOOL							
Public	99.8(0.1)*	99.9(0.0)*	99.9(0.1)	100.0(0.1)	100.0(0.0)†	100.0(0.0)#	L
Non-Public	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
QUARTILES							
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Lower	99.3(0.2)*	99.7(0.1)*	99.8(0.3)	99.8(0.2)	100.0(0.0)†	100.0(0.0)#	L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 17

Average mathematics scale scores across assessment years

Weighted percentages of observations with average mathematics scale scores at or above 250

	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	92.0(0.5)*	93.0(0.5)*	95.6(0.5)†	96.0(0.5)†	96.6(0.5)†	96.5(0.5)#	L
GENDER							
Male	93.0(0.5)*	93.9(0.6)*	96.1(0.6)†	95.8(0.8)†	96.9(0.6)†	97.3(0.6)#	L
Female	91.0(0.6)*	92.1(0.6)*	95.1(0.7)†	96.2(0.8)†	96.3(0.8)†	96.0(0.6)#	L
RACE/ETHNICITY							
White	95.6(0.3)*	96.2(0.3)*	98.0(0.4)†	97.6(0.3)†	98.3(0.4)†	98.4(0.4)#	L
Black	70.7(1.7)*	76.4(1.5)*	85.6(2.5)†	92.4(2.2)†	89.6(2.5)†	90.6(1.8)#	LQ
Hispanic	78.3(2.3)*	81.4(1.9)*	89.3(2.5)†	85.8(4.2)	94.1(2.2)†	91.8(3.6)#	L
Other	94.5(2.6)	97.2(1.7)	91.9(2.7)	97.9(1.9)	96.5(1.7)	97.0(2.2)	N
GRADE							
Below Modal Grade	75.5(1.3)*	79.0(1.9)*	84.2(2.3)†	88.2(1.8)†	90.0(1.7)†	89.1(2.0)#	L
At Modal Grade	94.8(0.5)*	95.5(0.4)*	98.0(0.4)†	98.1(0.4)†	98.7(0.3)†	98.4(0.3)#	LQ
Above Modal Grade	95.7(0.6)*	96.4(0.8)	97.6(1.2)	98.5(0.9)	99.0(0.7)†	98.9(0.8)#	L
REGION							
Northeast	93.8(0.6)*	95.2(0.9)	96.6(0.9)	94.5(1.7)	97.3(0.7)†	97.3(0.8)#	L
Southeast	87.6(1.3)*	89.2(1.7)*	94.1(1.0)†	96.2(0.7)†	95.6(1.7)†	95.6(0.7)#	L
Central	94.9(0.8)	94.8(0.5)*	96.8(0.9)	97.8(0.6)†	97.9(0.7)†	97.3(0.8)#	L
West	90.5(1.1)*	91.8(1.0)	94.8(1.1)†	95.5(1.0)†	95.8(1.2)†	96.1(1.4)#	L
PARENTS' EDUCATION LEVEL							
Less Than H.S.	82.1(1.1)	84.0(1.4)	88.0(2.1)	90.5(2.5)†	89.9(3.7)	90.1(3.9)#	L
Graduated H.S.	90.7(0.6)*	92.7(0.6)	93.9(1.2)	93.8(1.2)	94.8(0.9)†	94.6(1.1)#	L
Some Educ. After H.S.	95.5(0.5)*	96.2(0.7)	97.9(0.6)†	98.5(0.7)†	98.5(0.4)†	98.0(0.8)#	L
Graduated College	97.7(0.3)	97.8(0.4)	98.3(0.4)	98.6(0.5)	98.0(0.6)	98.6(0.4)	N
Unknown	77.2(2.0)	74.4(3.1)	88.0(4.1)	80.1(4.1)	90.9(4.7)†	87.0(5.1)	L
TYPE OF SCHOOL							
Public	91.7(0.5)*	92.5(0.6)*	95.5(0.5)†	95.8(0.6)†	96.3(0.6)†	96.2(0.5)#	L
Non-Public	97.1(0.6)	98.1(0.5)	99.4(0.6)†	98.2(1.2)	99.5(0.5)†	98.8(0.6)	L
QUARTILES							
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	99.4(0.2)*	99.7(0.1)	99.9(0.0)†	99.9(0.1)	100.0(0.1)†	100.0(0.0)#	L
Lower	69.1(1.0)*	72.5(1.3)*	82.5(1.8)†	84.5(2.0)†	86.5(1.8)†	86.2(1.8)#	L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 17

Average mathematics scale scores across assessment years

Weighted percentages of observations with average mathematics scale scores at or above 300

	1978	1982	1986	1990	1992	1994	TREND TESTS
TOTAL	51.5(1.1)*	48.5(1.3)*	51.7(1.4)*	56.1(1.4)	59.1(1.3)†	58.6(1.4)#	LQ
GENDER							
Male	55.1(1.2)	51.9(1.5)*	54.6(1.8)	57.6(1.4)	60.5(1.8)	60.2(2.1)#	L
Female	48.2(1.3)*	45.3(1.4)*	48.9(1.7)*	54.7(1.8)†	57.7(1.6)†	57.2(1.4)#	LQ
RACE/ETHNICITY							
White	57.6(1.1)*	54.7(1.4)*	59.1(1.7)*	63.2(1.6)†	66.4(1.4)†	67.0(1.4)#	LQ
Black	16.8(1.6)*	17.1(1.5)*	20.8(2.8)	32.8(4.5)†	29.8(3.9)†	29.8(3.4)#	L
Hispanic	23.4(2.7)	21.6(2.2)*	26.5(4.5)	30.1(3.1)	39.2(4.9)†	38.3(5.5)#	L
Other	64.7(4.9)	62.0(6.8)	54.9(8.2)	61.6(7.0)	69.8(4.8)	66.4(6.6)	N
GRADE							
Below Modal Grade	20.1(1.1)*	18.5(1.5)*	19.8(2.2)	24.4(2.1)	27.2(2.6)	28.2(2.6)#	L
At Modal Grade	56.5(1.2)*	53.5(1.3)*	58.3(1.5)*	65.1(1.4)†	69.0(1.2)†	66.1(1.4)#	LQ
Above Modal Grade	61.4(1.6)	58.2(2.0)*	56.8(4.4)*	63.3(3.7)	70.6(3.8)	72.0(3.8)#	LQ
REGION							
Northeast	59.2(2.1)	55.6(2.5)	58.9(2.9)	55.7(3.2)	64.8(2.8)	66.6(3.8)	LQ
Southeast	42.4(1.9)*	41.7(2.6)*	45.5(2.0)	49.4(2.8)	51.6(2.8)†	51.3(2.5)#	L
Central	57.1(2.3)	52.0(2.3)	53.9(2.6)	65.3(3.3)	68.5(3.0)†	60.2(3.2)	L
West	45.3(2.3)*	43.3(2.7)*	48.3(4.1)	53.8(2.6)	53.1(3.3)	57.1(2.6)#	L
PARENTS' EDUCATION LEVEL							
Less Than H.S.	26.1(1.4)	23.6(1.6)	21.1(2.9)	29.7(3.4)	30.9(4.2)	27.1(3.8)	N
Graduated H.S.	43.2(1.2)	41.0(1.2)	39.8(1.7)	41.6(1.7)	47.2(2.7)	42.8(2.7)	N
Some Educ. After H.S.	57.5(1.4)	55.8(1.4)	55.4(2.5)	61.0(2.0)	60.1(2.8)	58.1(2.0)	N
Graduated College	71.7(1.4)	66.8(1.5)*	68.2(2.1)	71.1(1.9)	71.2(1.7)	74.0(1.9)	Q
Unknown	23.9(2.2)	17.9(2.0)	18.3(4.3)	23.3(5.2)	35.3(6.2)	28.0(5.1)	L
TYPE OF SCHOOL							
Public	50.6(1.2)*	46.9(1.3)*	50.7(1.6)*	55.0(1.3)	56.9(1.2)†	56.2(1.3)#	LQ
Non-Public	67.7(3.3)	66.3(2.4)	75.1(10.6)	71.0(7.9)	79.5(3.7)	75.7(4.3)	L
QUARTILES							
Upper	97.6(0.4)*	98.5(0.4)	99.6(0.3)†	99.5(0.2)†	99.7(0.2)†	99.6(0.3)#	LQ
Middle Two	53.1(0.6)*	47.3(1.1)†*	53.1(1.8)*	61.5(1.6)†	67.1(1.4)†	66.0(1.3)#	LQ
Lower	2.4(0.3)	1.0(0.3)†	1.2(0.6)	2.0(0.7)	2.5(0.7)	2.8(1.0)	Q

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 17

Average mathematics scale scores across assessment years

Weighted percentages of observations with average mathematics scale scores at or above 350

	1978	1982	1986	1990	1992	TREND TESTS	
TOTAL	7.3(0.4)	5.5(0.4)†	6.5(0.5)	7.2(0.6)	7.2(0.6)	7.4(0.8)	N
GENDER							
Male	9.5(0.6)	6.9(0.7)†	8.4(0.9)	8.8(0.8)	9.1(0.7)	9.3(1.0)	N
Female	5.2(0.7)	4.1(0.4)	4.7(0.6)	5.6(0.8)	5.2(0.8)	5.5(0.9)	N
RACE/ETHNICITY							
White	8.5(0.5)	6.4(0.5)†	7.9(0.7)	8.3(0.7)	8.7(0.9)	9.4(1.1)	N
Black	0.5(0.2)	0.5(0.3)	0.2(0.3)	2.0(1.0)	0.9(0.7)	0.4(0.4)	N
Hispanic	1.4(0.6)	0.7(0.4)	1.1(0.8)	1.9(0.8)	1.2(0.8)	1.4(1.0)	N
Other	15.4(3.2)	9.5(2.7)	10.8(6.4)	15.9(4.3)	16.9(5.7)	12.1(3.6)	N
GRADE							
Below Modal Grade	0.7(0.3)	0.7(0.3)	0.4(0.3)	1.2(0.5)	0.6(0.4)	1.6(0.5)	N
At Modal Grade	8.1(0.5)	6.1(0.5)†*	7.2(0.6)	8.9(0.7)	8.9(0.8)	8.6(0.8)	L
Above Modal Grade	11.4(0.9)	8.6(1.4)	13.5(2.4)	8.4(1.8)	14.0(2.9)	11.5(4.0)	N
REGION							
Northeast	10.3(1.0)	7.3(1.3)	8.9(1.9)	7.3(1.0)	10.3(1.7)	12.4(2.2)	Q
Southeast	5.1(0.5)	4.0(0.7)	4.9(1.1)	6.8(1.8)	4.9(0.9)	5.0(1.0)	N
Central	8.4(1.0)	6.9(0.8)	6.6(1.1)	9.3(1.1)	7.9(1.2)	6.7(1.1)	N
West	5.0(0.6)	3.3(0.4)	5.6(1.4)	5.5(1.0)	6.3(1.2)	6.0(1.6)	N
PARENTS' EDUCATION LEVEL							
Less Than H.S.	1.4(0.3)	1.0(0.4)	0.5(0.5)	1.2(0.8)	0.8(0.8)	0.7(0.7)	N
Graduated H.S.	3.9(0.3)	3.1(0.4)	2.7(0.6)	2.4(0.6)	2.9(1.2)	2.3(0.5)#	N
Some Educ. After H.S.	7.4(0.7)*	5.9(0.6)	6.9(0.9)	6.7(1.0)	5.8(0.8)	4.0(1.1)#	L
Graduated College	14.1(0.9)	10.2(1.1)†	11.0(1.1)	12.5(1.2)	11.7(1.2)	13.2(1.3)	Q
Unknown	1.4(0.6)	0.8(0.4)	1.0(1.7)	0.4(0.4)	2.0(2.5)	0.5(1.0)	N
TYPE OF SCHOOL							
Public	7.0(0.4)	5.2(0.4)†	6.1(0.5)	6.5(0.5)	6.7(0.7)	6.4(0.7)	N
Non-Public	12.9(2.7)	8.2(1.4)	16.3(9.1)	15.7(5.3)	12.2(2.7)	14.5(3.5)	N
QUARTILES							
Upper	27.2(1.0)	21.5(1.3)†*	25.9(1.6)	27.7(1.7)	28.3(2.4)	29.0(2.4)	L
Middle Two	1.0(0.2)*	0.2(0.1)†	0.1(0.1)†	0.2(0.2)†	0.3(0.3)	0.3(0.2)#	LQ
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 9

Weighted means, standard deviations, and percentiles of mathematics distributions with jackknifed standard errors

	1978	1982	1986	1990	1992	1994
TOTAL SAMPLE						
Mean	218.6(0.8)	219.0(1.1)	221.7(1.0)	229.6(0.8)	229.6(0.8)	231.1(0.8)
St. Dev.	36.0(0.3)	34.8(0.4)	34.0(0.5)	32.9(0.5)	33.1(0.5)	33.2(0.5)
Percentiles						
5	157.1(1.0)	159.3(1.8)	163.0(1.3)	173.3(2.6)	172.2(1.6)	174.1(1.4)
10	171.1(1.2)	173.2(1.8)	176.7(1.5)	185.8(2.2)	185.4(1.2)	186.8(1.4)
25	194.6(1.0)	196.0(1.1)	199.0(1.6)	207.8(1.3)	207.9(1.2)	209.0(0.9)
50	220.1(1.0)	220.4(1.2)	223.3(1.1)	231.1(0.9)	231.0(0.8)	232.5(1.1)
75	243.7(0.9)	243.3(1.4)	245.6(1.2)	252.5(0.7)	252.6(0.8)	254.7(0.8)
90	264.0(1.2)	262.7(1.0)	264.2(1.3)	271.0(1.0)	270.9(1.3)	272.4(1.0)
95	275.7(1.2)	273.8(1.3)	275.5(1.2)	282.1(1.3)	281.7(1.2)	282.9(1.1)
MALE STUDENTS						
Mean	217.4(0.7)	217.1(1.2)	221.7(1.1)	229.1(0.9)	230.8(1.0)	232.2(1.0)
St. Dev.	36.7(0.5)	35.8(0.5)	34.3(0.8)	33.5(0.6)	33.5(0.6)	33.6(0.6)
Percentiles						
5	154.9(2.3)	156.4(2.1)	162.7(2.0)	171.8(2.5)	172.7(1.5)	174.7(2.1)
10	169.0(1.3)	170.2(1.4)	176.1(1.7)	184.6(2.1)	186.1(1.4)	186.8(1.9)
25	192.8(1.0)	193.0(1.5)	198.6(1.6)	206.7(1.2)	208.9(1.6)	209.7(1.3)
50	218.4(0.9)	218.6(1.7)	223.0(1.0)	230.4(1.0)	232.2(1.0)	233.9(1.1)
75	243.0(1.1)	242.3(1.6)	245.7(1.6)	252.4(0.8)	254.2(1.1)	256.2(1.0)
90	263.8(1.2)	262.2(1.2)	265.1(1.9)	271.6(1.8)	272.5(1.2)	274.1(1.1)
95	275.2(1.1)	273.6(1.9)	276.4(2.1)	282.8(1.7)	283.8(1.4)	284.6(1.6)
FEMALE STUDENTS						
Mean	219.9(1.0)	220.8(1.2)	221.7(1.2)	230.2(1.1)	228.4(1.0)	230.0(0.9)
St. Dev.	35.3(0.4)	33.7(0.5)	33.7(0.6)	32.4(0.6)	32.7(0.7)	32.9(0.7)
Percentiles						
5	159.4(1.3)	162.8(1.7)	163.5(2.3)	174.5(2.8)	171.8(1.6)	173.5(1.5)
10	173.1(2.0)	176.6(1.6)	177.5(2.6)	187.0(2.7)	184.9(1.6)	187.0(1.3)
25	196.4(1.2)	198.9(1.8)	199.2(1.8)	208.9(1.3)	206.9(1.5)	208.6(1.0)
50	221.5(1.0)	222.2(1.1)	223.5(1.1)	231.8(1.0)	229.9(1.0)	231.5(1.0)
75	244.3(1.5)	244.2(1.4)	245.5(1.5)	252.7(1.0)	251.1(1.1)	253.5(1.3)
90	264.2(1.4)	263.1(1.0)	263.3(1.6)	270.4(1.3)	269.2(1.2)	270.8(1.7)
95	276.1(1.8)	273.9(1.7)	274.2(2.0)	281.4(1.1)	279.8(2.3)	281.0(1.8)
WHITE STUDENTS						
Mean	224.1(0.9)	224.0(1.1)	226.9(1.1)	235.2(0.8)	235.1(0.8)	236.8(1.0)
St. Dev.	34.0(0.3)	32.8(0.4)	32.6(0.5)	31.2(0.5)	31.0(0.5)	31.4(0.4)
Percentiles						
5	166.3(1.5)	168.1(1.4)	170.6(2.4)	181.8(2.4)	181.8(1.5)	182.4(2.4)
10	179.4(1.5)	180.8(1.7)	183.9(1.7)	194.0(1.6)	194.2(1.5)	194.7(1.1)
25	201.4(1.1)	201.9(1.3)	205.3(1.1)	214.6(0.9)	215.0(0.9)	216.5(1.3)
50	225.1(1.0)	225.3(1.4)	228.3(1.1)	236.3(1.0)	236.1(1.1)	238.3(1.1)
75	247.7(0.8)	246.8(0.9)	249.6(0.8)	256.4(0.6)	256.4(1.0)	258.9(1.1)
90	267.0(1.1)	265.3(1.0)	267.4(1.2)	274.5(0.8)	273.9(1.3)	275.3(1.1)
95	278.4(1.7)	276.0(1.3)	278.2(1.8)	284.8(2.1)	284.5(1.6)	285.7(1.2)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 9

Weighted means, standard deviations, and percentiles of mathematics distributions with jackknifed standard errors (continued)

	1978	1982	1986	1990	1992	1994
BLACK STUDENTS						
Mean	192.4(1.1)	194.9(1.6)	201.6(1.6)	208.4(2.2)	208.0(2.0)	212.1(1.6)
St. Dev.	34.5(0.8)	33.7(0.8)	31.7(1.1)	31.5(0.8)	31.8(0.7)	30.8(1.1)
Percentiles						
5	133.7(1.9)	136.7(2.5)	146.2(3.2)	156.0(1.7)	154.9(3.4)	159.8(3.8)
10	147.0(1.7)	150.4(2.3)	158.4(4.9)	167.1(3.7)	165.9(2.9)	171.1(3.0)
25	169.3(1.9)	172.5(2.0)	180.5(4.1)	186.0(4.1)	185.5(2.4)	191.3(1.7)
50	193.0(1.1)	196.6(2.0)	202.9(1.6)	208.4(3.1)	208.6(2.1)	213.3(1.7)
75	216.4(1.6)	218.2(2.0)	223.6(2.0)	231.4(2.1)	230.4(2.0)	233.7(1.0)
90	236.1(1.6)	236.7(2.5)	241.2(1.7)	248.9(2.9)	249.2(2.1)	251.6(5.2)
95	247.5(1.4)	247.9(2.8)	251.3(1.3)	258.9(4.3)	258.7(3.4)	261.6(2.2)
HISPANIC STUDENTS						
Mean	202.9(2.2)	204.0(1.3)	205.4(2.1)	213.8(2.1)	211.9(2.3)	209.9(2.3)
St. Dev.	35.1(1.4)	32.8(1.1)	31.1(1.9)	30.3(1.2)	31.9(1.4)	30.7(1.3)
Percentiles						
5	144.4(5.4)	148.1(2.8)	154.8(3.7)	161.8(3.4)	158.6(4.4)	159.1(3.3)
10	156.3(3.7)	160.8(3.2)	163.8(1.8)	173.4(1.4)	169.0(3.5)	170.3(4.1)
25	178.7(3.2)	181.3(2.3)	184.6(3.2)	193.1(3.6)	189.7(2.2)	189.8(3.0)
50	204.3(3.0)	205.2(1.6)	206.3(2.4)	216.2(4.1)	211.8(3.5)	210.5(2.5)
75	227.2(2.5)	226.5(2.0)	226.0(3.8)	235.1(3.3)	233.8(3.4)	230.3(3.8)
90	249.5(4.0)	246.4(3.4)	244.8(3.8)	251.7(3.4)	252.7(3.8)	249.4(4.4)
95	259.6(4.6)	256.6(2.9)	254.4(4.6)	262.2(3.5)	263.1(6.8)	259.4(7.3)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 13

Weighted means, standard deviations, and percentiles of mathematics distributions with jackknifed standard errors

	1978	1982	1986	1990	1992	1994
TOTAL SAMPLE						
Mean	264.1(1.1)	268.6(1.1)	269.0(1.2)	270.4(0.9)	273.1(0.9)	274.3(1.0)
St. Dev.	39.0(0.5)	33.4(0.5)	30.8(0.5)	31.1(0.5)	30.9(0.6)	32.4(0.5)
Percentiles						
5	198.2(1.6)	212.4(2.7)	218.3(1.8)	217.6(2.2)	220.5(2.0)	219.7(2.0)
10	213.3(1.5)	225.3(1.6)	230.0(1.4)	230.2(1.4)	233.2(1.2)	232.5(1.4)
25	238.1(1.3)	246.2(1.2)	248.3(1.8)	249.8(0.9)	252.9(1.1)	253.3(1.3)
50	265.2(1.1)	269.5(1.0)	268.7(1.3)	270.9(1.0)	274.1(0.7)	275.6(0.9)
75	291.1(1.1)	291.6(1.1)	289.6(1.3)	291.7(1.0)	294.0(1.0)	296.5(1.2)
90	313.4(1.2)	310.8(1.2)	309.2(1.5)	309.9(1.0)	311.9(1.6)	314.6(1.2)
95	326.6(1.3)	322.2(1.2)	320.5(2.2)	320.1(1.6)	322.9(1.2)	326.1(1.5)
MALE STUDENTS						
Mean	263.6(1.3)	269.2(1.4)	270.0(1.1)	271.2(1.2)	274.1(1.1)	276.0(1.3)
St. Dev.	40.1(0.5)	34.4(0.7)	31.6(0.7)	32.4(0.7)	31.6(0.9)	33.5(0.8)
Percentiles						
5	195.8(1.4)	211.5(2.2)	218.0(1.8)	215.5(2.1)	220.5(2.9)	218.9(2.9)
10	211.4(1.4)	224.3(2.0)	229.5(1.7)	228.6(2.0)	233.2(2.0)	232.6(2.6)
25	236.7(1.4)	246.1(1.5)	248.9(2.3)	250.2(1.7)	253.1(1.8)	254.8(1.7)
50	264.8(1.4)	270.2(1.2)	270.1(1.6)	272.0(1.0)	274.9(1.0)	278.0(1.3)
75	291.5(1.5)	293.3(1.2)	291.4(1.6)	293.1(1.2)	295.7(0.8)	298.9(1.5)
90	314.4(1.7)	312.5(1.5)	310.8(1.5)	312.4(1.4)	314.0(1.6)	317.2(2.2)
95	327.5(1.5)	324.1(1.3)	322.0(2.6)	323.1(1.9)	324.8(2.1)	328.7(2.2)
FEMALE STUDENTS						
Mean	264.7(1.1)	268.0(1.1)	267.9(1.5)	269.6(0.9)	272.0(1.0)	272.7(1.0)
St. Dev.	37.9(0.6)	32.3(0.5)	30.0(0.7)	29.7(0.5)	30.3(0.6)	31.1(0.5)
Percentiles						
5	200.9(2.6)	213.5(1.5)	218.5(3.2)	220.4(2.3)	220.6(1.0)	220.4(1.9)
10	215.0(1.6)	226.2(1.4)	230.6(2.0)	231.4(1.2)	233.0(1.3)	232.5(1.5)
25	239.4(1.4)	246.3(1.1)	247.8(1.6)	249.5(1.1)	252.7(1.2)	252.3(0.8)
50	265.7(1.2)	268.8(0.9)	267.4(1.7)	269.9(1.2)	273.4(1.0)	273.5(0.9)
75	290.7(1.0)	290.1(1.1)	287.8(1.7)	290.3(1.3)	292.2(1.3)	293.9(1.6)
90	312.4(1.4)	308.8(1.5)	307.2(2.8)	307.7(1.5)	309.8(1.2)	311.4(1.7)
95	325.6(1.2)	320.1(2.0)	318.5(2.4)	317.3(0.8)	320.8(1.1)	323.1(2.9)
WHITE STUDENTS						
Mean	271.6(0.8)	274.4(1.0)	273.6(1.3)	276.3(1.1)	278.9(0.9)	280.8(0.9)
St. Dev.	35.7(0.5)	31.0(0.4)	29.4(0.6)	29.0(0.5)	28.5(0.5)	29.8(0.6)
Percentiles						
5	211.9(1.4)	223.0(1.6)	225.7(1.5)	228.2(1.5)	230.9(1.6)	230.7(1.0)
10	225.5(1.4)	234.4(1.2)	236.5(1.3)	239.3(1.0)	242.2(1.4)	242.8(1.1)
25	247.6(0.9)	253.5(1.1)	254.1(1.4)	257.3(1.1)	260.5(0.8)	262.0(1.1)
50	272.2(1.0)	274.9(0.9)	273.3(1.0)	276.6(1.0)	279.4(1.0)	281.9(1.2)
75	296.0(0.7)	295.5(1.0)	293.2(1.3)	296.0(1.1)	298.0(1.1)	300.5(1.3)
90	317.1(1.2)	313.8(1.4)	312.1(2.2)	313.2(1.3)	315.1(1.3)	317.7(1.5)
95	329.6(1.3)	324.8(1.4)	322.9(1.8)	322.9(1.6)	325.2(1.4)	328.6(1.7)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 13

Weighted means, standard deviations, and percentiles of mathematics distributions with jackknifed standard errors (continued)

	1978	1982	1986	1990	1992	1994
BLACK STUDENTS						
Mean	229.6(1.9)	240.4(1.6)	249.2(2.3)	249.1(2.3)	250.2(1.9)	251.5(3.5)
St. Dev.	36.0(0.6)	31.0(1.1)	28.3(1.1)	28.7(1.2)	30.1(1.2)	31.5(2.2)
Percentiles						
5	170.2(1.9)	189.0(4.3)	201.7(4.5)	201.6(5.4)	199.5(4.5)	201.8(7.7)
10	184.1(2.6)	200.2(3.7)	213.2(2.3)	211.8(2.2)	212.3(5.1)	212.8(3.8)
25	205.5(1.9)	219.3(1.8)	230.7(2.2)	229.9(3.0)	231.1(3.0)	231.2(3.6)
50	229.0(2.2)	241.0(1.9)	249.3(2.3)	249.4(2.0)	250.6(1.9)	250.6(3.8)
75	254.1(2.2)	260.9(1.4)	266.9(1.5)	267.8(2.9)	270.9(1.8)	271.1(4.8)
90	276.4(2.4)	279.7(2.2)	284.4(3.7)	285.3(2.8)	286.5(2.1)	291.7(3.5)
95	288.4(3.9)	291.1(1.7)	296.4(4.3)	296.2(4.1)	297.4(3.5)	304.2(8.3)
HISPANIC STUDENTS						
Mean	238.0(2.0)	252.4(1.7)	254.3(2.9)	254.6(1.8)	259.3(1.8)	256.0(1.9)
St. Dev.	35.2(1.1)	31.0(1.0)	29.3(1.3)	29.9(1.2)	28.1(1.0)	28.8(1.2)
Percentiles						
5	180.2(1.8)	202.3(2.2)	205.9(3.6)	206.2(3.7)	212.2(3.5)	208.8(2.8)
10	192.5(2.2)	213.5(2.6)	216.2(3.8)	216.4(3.1)	224.0(2.4)	219.4(3.0)
25	214.3(1.8)	230.7(1.9)	235.5(2.7)	234.3(2.2)	240.6(3.2)	237.5(2.3)
50	237.4(2.0)	251.9(1.4)	254.3(3.4)	255.1(1.9)	259.4(2.3)	255.8(1.6)
75	261.9(3.2)	273.7(1.4)	274.2(2.4)	275.2(3.5)	278.6(2.9)	274.3(2.2)
90	283.7(3.4)	292.8(2.4)	291.7(3.1)	292.2(2.9)	294.9(1.6)	292.7(2.3)
95	296.3(3.1)	304.1(2.9)	301.2(1.9)	303.3(3.3)	304.1(3.2)	304.3(9.7)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 17

Weighted means, standard deviations, and percentiles of mathematics distributions with jackknifed standard errors

	1978	1982	1986	1990	1992	1994
TOTAL SAMPLE						
Mean	300.4(1.0)	298.5(0.9)	302.0(0.9)	304.6(0.9)	306.7(0.9)	306.2(1.0)
St. Dev.	34.9(0.3)	32.4(0.4)	31.0(0.5)	31.1(0.6)	30.1(0.5)	30.2(0.6)
Percentiles						
5	241.3(1.3)	244.9(1.1)	251.7(1.2)	253.4(1.0)	255.6(2.1)	255.9(1.9)
10	254.2(1.1)	255.9(1.0)	262.7(1.0)	264.0(1.1)	267.2(1.6)	267.0(1.0)
25	276.4(1.2)	275.8(1.3)	280.7(0.6)	282.5(1.0)	286.3(1.2)	285.6(1.0)
50	301.4(1.1)	298.8(1.0)	301.4(1.3)	304.9(1.1)	307.6(1.0)	306.4(1.2)
75	325.4(1.0)	321.5(0.8)	323.1(1.9)	326.5(1.2)	328.0(1.0)	327.0(1.2)
90	344.7(0.8)	340.6(0.9)	343.0(1.3)	344.5(1.3)	345.2(1.1)	345.5(1.5)
95	355.7(0.9)	351.2(1.1)	354.0(1.1)	355.5(2.2)	354.8(1.0)	355.5(1.7)
MALE STUDENTS						
Mean	303.8(1.0)	301.5(1.0)	304.7(1.2)	306.3(1.1)	308.9(1.1)	308.5(1.4)
St. Dev.	35.4(0.4)	32.8(0.5)	32.0(0.7)	32.3(0.7)	30.8(0.6)	30.9(0.6)
Percentiles						
5	243.8(1.2)	247.0(1.3)	252.7(3.0)	252.8(3.0)	257.8(1.7)	258.0(1.8)
10	257.0(1.2)	257.9(1.2)	264.1(1.2)	263.9(1.2)	268.9(1.8)	268.4(2.9)
25	278.9(1.2)	278.1(1.1)	282.3(1.8)	283.7(1.3)	287.8(1.2)	286.8(2.2)
50	304.8(1.3)	301.8(1.6)	303.9(1.2)	306.4(1.6)	309.0(1.6)	308.3(1.9)
75	329.5(1.1)	325.1(1.2)	327.8(2.1)	329.3(1.1)	331.4(1.1)	330.7(1.8)
90	349.2(1.0)	344.4(1.1)	346.7(1.6)	347.8(1.4)	348.6(1.3)	348.9(1.7)
95	360.1(1.0)	354.4(1.8)	357.5(1.7)	358.5(1.3)	358.1(1.4)	358.8(1.6)
FEMALE STUDENTS						
Mean	297.1(1.0)	295.6(1.0)	299.4(1.0)	302.9(1.1)	304.5(1.1)	304.1(1.1)
St. Dev.	34.0(0.4)	31.7(0.4)	29.9(0.7)	29.9(0.9)	29.3(0.7)	29.1(0.7)
Percentiles						
5	239.3(1.3)	242.8(1.6)	250.3(2.8)	253.9(1.9)	253.7(2.3)	254.0(3.2)
10	252.2(1.0)	254.1(1.2)	261.2(1.4)	264.0(1.5)	265.6(2.4)	266.2(1.0)
25	274.3(1.3)	273.7(1.2)	279.3(1.3)	281.5(1.3)	284.8(1.1)	285.1(1.1)
50	298.3(1.1)	296.1(1.2)	299.1(1.3)	303.7(1.7)	305.8(1.5)	304.9(1.3)
75	321.5(1.0)	317.7(0.8)	319.8(1.7)	324.1(1.2)	324.8(1.2)	323.7(1.3)
90	340.3(1.4)	336.7(1.7)	338.2(2.2)	341.4(1.6)	341.4(2.1)	341.0(2.1)
95	350.4(1.5)	347.2(1.5)	349.3(1.9)	351.8(2.2)	350.6(2.3)	351.5(2.9)
WHITE STUDENTS						
Mean	305.9(0.9)	303.7(0.9)	307.5(1.0)	309.5(1.0)	311.9(0.8)	312.3(1.1)
St. Dev.	32.3(0.2)	30.4(0.4)	29.1(0.6)	29.5(0.5)	28.4(0.5)	28.6(0.6)
Percentiles						
5	251.9(0.6)	253.3(1.1)	261.2(1.6)	260.2(1.3)	264.1(2.0)	264.8(1.7)
10	263.3(1.3)	263.8(1.1)	270.5(1.3)	270.5(1.5)	274.4(1.4)	275.3(1.7)
25	283.5(1.0)	282.3(1.1)	286.9(1.2)	288.8(1.5)	292.8(1.1)	293.1(1.5)
50	306.6(1.0)	303.9(1.2)	306.8(1.3)	310.1(1.3)	312.8(1.0)	312.4(1.3)
75	328.9(0.8)	325.1(0.9)	327.8(1.7)	330.1(1.2)	332.2(1.0)	332.2(1.2)
90	347.3(0.7)	343.4(1.1)	346.1(1.3)	347.2(1.0)	348.0(1.0)	349.1(1.6)
95	357.8(0.7)	353.4(1.5)	356.0(1.4)	357.1(1.3)	357.4(1.2)	358.9(1.8)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Age 17

Weighted means, standard deviations, and percentiles of mathematics distributions with jackknifed standard errors (continued)

	1978	1982	1986	1990	1992	1994
BLACK STUDENTS						
Mean	268.4(1.3)	271.8(1.2)	278.6(2.1)	288.5(2.8)	285.8(2.2)	285.5(1.8)
St. Dev.	31.8(1.0)	29.2(0.7)	26.4(1.4)	27.9(1.7)	27.5(1.3)	25.6(1.0)
Percentiles						
5	217.2(2.0)	225.1(1.4)	236.7(3.9)	245.4(4.4)	238.5(4.3)	241.1(5.7)
10	227.8(1.7)	234.5(1.7)	244.3(4.2)	253.5(3.5)	248.9(6.9)	251.1(1.9)
25	245.7(1.2)	251.4(1.6)	259.9(1.6)	268.7(1.8)	267.4(3.8)	268.2(2.5)
50	267.7(1.6)	271.2(1.4)	278.6(3.9)	287.1(2.5)	286.9(1.9)	285.9(2.1)
75	290.5(2.2)	291.2(1.7)	296.1(2.5)	307.1(5.3)	303.9(3.9)	303.4(2.0)
90	310.3(2.1)	310.8(1.7)	312.0(7.4)	325.7(5.8)	320.8(2.3)	317.3(4.1)
95	320.7(2.5)	321.3(2.2)	324.8(4.1)	337.7(4.2)	330.8(3.0)	326.1(6.5)
HISPANIC STUDENTS						
Mean	276.3(2.3)	276.7(1.8)	283.1(2.9)	283.5(2.9)	292.2(2.6)	290.8(3.7)
St. Dev.	32.9(1.0)	29.3(1.0)	28.7(2.0)	31.8(1.8)	26.9(1.0)	28.4(1.7)
Percentiles						
5	224.1(4.4)	232.0(1.7)	236.3(5.3)	229.1(5.4)	247.5(4.3)	244.5(5.1)
10	234.0(2.9)	240.7(3.2)	248.5(4.5)	242.2(8.1)	257.8(3.5)	253.6(5.8)
25	253.4(1.8)	255.8(2.4)	264.7(2.8)	263.8(6.8)	273.3(4.5)	271.1(3.8)
50	275.1(3.6)	275.3(3.2)	283.1(2.5)	281.8(2.4)	291.6(3.4)	290.1(5.4)
75	298.5(3.9)	297.1(2.6)	301.2(4.2)	304.0(4.4)	310.7(3.7)	311.0(5.5)
90	319.5(3.9)	314.9(2.6)	318.6(2.3)	325.1(3.6)	327.7(4.8)	328.7(3.6)
95	332.0(0.9)	326.7(4.4)	329.3(7.3)	336.3(8.6)	336.4(2.7)	338.4(2.9)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 9

Weighted percentage correct by subgroups across assessment years

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Apply concept of probability	1994	42.2(1.7)	47.1(2.1)	37.4(2.2)	46.3(1.8)	32.5(3.6)	30.5(4.5)
	1992	41.8(1.2)	43.6(1.7)	39.9(1.5)	44.4(1.1)	33.5(3.1)	28.2(2.0)
	1990	39.0(1.3)	40.1(1.7)	37.8(1.9)	40.9(1.7)	29.9(2.5)	34.6(3.4)
	1986	37.1(1.3)	39.4(1.9)	34.5(2.2)	38.3(1.5)	35.9(1.9)	25.4(3.9)
	1982	43.6(1.6)	43.8(2.4)	43.3(1.7)	45.2(1.9)	36.0(3.9)	34.8(3.6)
	1978	42.6(1.3)	45.6(2.0)	39.5(1.9)	45.3(1.4)	29.1(2.8)	36.2(3.6)
Read tally chart	1994	90.8(1.0)	91.9(1.1)	90.0(1.1)	95.1(0.6)	77.6(3.3)	82.6(3.6)
	1992	88.5(1.0)	87.9(1.1)	89.1(1.2)	92.2(0.7)	74.0(3.1)	77.8(4.0)
	1990	83.1(1.6)	83.2(1.7)	82.9(1.8)	88.2(1.4)	61.6(3.9)	75.6(5.5)
	1986	70.1(1.6)	71.1(1.7)	69.0(2.1)	74.8(1.8)	51.5(4.0)	57.2(8.2)
	1982	63.5(2.2)	63.7(2.1)	63.3(2.9)	68.4(2.2)	38.0(4.1)	57.5(3.8)
Interpret tally chart	1994	85.0(1.1)	84.5(1.3)	85.5(1.3)	88.2(1.0)	77.9(2.2)	69.9(4.6)
	1992	82.6(1.1)	83.5(1.4)	81.7(1.4)	86.2(0.9)	70.1(3.2)	68.9(2.8)
	1990	80.4(1.7)	79.8(1.9)	81.1(1.8)	83.6(1.4)	66.8(5.0)	73.6(4.2)
	1986	71.6(1.4)	72.3(1.6)	70.7(1.7)	74.5(1.6)	59.7(3.3)	65.2(6.1)
	1982	72.8(1.7)	71.4(2.1)	74.3(1.8)	76.0(2.0)	55.3(2.7)	67.8(4.3)
Interpret tally chart	1994	59.1(1.3)	61.2(1.9)	57.1(1.8)	65.4(1.1)	40.3(4.1)	38.0(4.9)
	1992	56.2(1.2)	56.3(1.6)	56.1(1.6)	60.8(1.4)	38.4(2.9)	41.9(4.0)
	1990	51.6(1.5)	52.7(2.1)	50.4(1.9)	56.5(1.7)	31.7(3.8)	39.0(3.7)
	1986	44.9(1.7)	46.7(2.1)	43.0(1.8)	49.6(1.9)	27.0(2.3)	29.0(5.6)
	1982	40.0(1.7)	40.6(2.3)	39.3(2.2)	44.4(2.0)	17.7(2.4)	30.5(3.7)
Read data from table	1994	80.6(1.1)	79.6(1.3)	81.8(1.6)	83.2(1.2)	73.9(2.8)	69.4(4.6)
	1992	80.0(1.2)	78.5(1.6)	81.3(1.4)	81.2(1.3)	76.4(1.8)	72.2(5.1)
	1990	81.3(1.1)	77.1(1.7)	85.3(1.4)	83.4(1.0)	73.8(3.2)	73.2(4.3)
	1986	76.0(1.4)	72.5(2.0)	79.3(1.5)	78.1(1.8)	67.6(3.6)	70.5(5.5)
	1982	76.2(1.3)	75.2(1.9)	77.2(1.3)	78.4(1.1)	65.3(3.1)	69.1(4.5)
	1978	72.8(1.0)	70.0(1.4)	75.5(1.5)	76.0(1.1)	59.7(3.9)	59.0(5.9)
Interpret data in table	1994	44.2(1.8)	47.0(2.1)	41.5(2.0)	50.5(2.1)	25.3(2.3)	22.2(3.9)
	1992	41.8(1.5)	41.2(2.1)	42.3(1.9)	46.7(1.4)	25.4(3.5)	23.3(4.6)
	1990	44.5(1.5)	43.0(1.6)	46.0(2.3)	49.7(1.9)	27.2(2.9)	28.5(4.3)
	1986	35.8(1.7)	36.3(2.3)	35.4(2.0)	40.1(2.3)	19.4(2.2)	23.3(4.1)
	1982	36.6(2.2)	36.0(2.2)	37.2(2.8)	40.9(2.7)	20.7(2.2)	19.4(3.5)
	1978	36.6(1.4)	37.5(1.7)	35.8(1.6)	39.6(1.6)	26.3(3.2)	23.2(4.9)
Compute using data in table	1994	67.6(1.6)	67.8(1.9)	67.6(2.0)	73.0(1.6)	52.8(3.8)	44.7(3.4)
	1992	64.3(1.3)	65.5(1.6)	63.2(1.5)	68.2(1.5)	51.2(2.2)	44.9(5.5)
	1990	67.8(1.4)	65.8(2.3)	69.6(1.6)	71.8(1.5)	53.6(4.0)	55.1(4.2)
	1986	60.9(1.9)	58.8(2.2)	62.9(2.0)	64.2(2.3)	47.9(2.4)	46.8(4.9)
	1982	54.9(1.8)	54.1(1.9)	55.7(2.5)	59.3(2.0)	33.4(2.7)	45.1(5.7)
	1978	54.9(1.7)	54.7(1.8)	55.0(2.3)	59.6(1.9)	32.9(3.1)	42.7(8.6)
Read data in bar graph	1994	82.4(1.2)	83.3(1.4)	81.6(1.5)	86.3(1.2)	71.1(4.2)	72.0(4.4)
	1992	82.8(0.8)	81.1(1.2)	84.5(1.4)	84.7(0.8)	75.8(2.0)	74.6(3.2)
	1990	82.7(1.1)	82.0(1.7)	83.4(1.2)	85.2(1.1)	73.3(3.2)	76.1(4.2)
	1986	75.8(1.2)	74.3(1.7)	77.5(1.3)	77.4(1.3)	71.0(3.0)	72.7(3.9)
	1982	67.0(1.7)	62.6(2.4)	71.2(1.9)	70.5(2.0)	47.8(5.1)	61.6(4.7)
	1978	53.8(1.9)	53.7(2.2)	53.9(2.2)	58.0(2.2)	36.2(3.0)	38.2(3.3)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Interpret data in bar graph	1994	44.9(1.7)	48.7(2.3)	41.2(1.9)	50.8(1.8)	30.9(2.8)	17.9(3.8)
	1992	43.4(1.5)	47.0(1.8)	39.8(2.0)	47.6(1.8)	29.7(2.2)	26.9(4.7)
	1990	42.1(1.7)	43.0(2.2)	41.2(2.4)	47.2(1.8)	27.6(3.1)	20.8(4.0)
	1986	33.4(1.3)	35.9(1.5)	30.7(1.5)	37.7(1.5)	16.9(2.0)	23.3(4.0)
	1982	26.2(1.9)	26.1(1.7)	26.3(2.7)	28.8(2.3)	16.2(2.0)	11.8(2.4)
	1978	23.9(1.3)	26.3(1.6)	21.4(1.7)	25.7(1.6)	17.3(2.5)	16.5(3.4)
Compute with data in bar graph	1994	57.3(1.1)	59.4(1.8)	55.4(1.5)	61.7(1.4)	49.3(3.2)	29.6(4.2)
	1992	57.8(1.4)	59.5(1.8)	56.1(1.6)	61.8(1.3)	42.9(3.1)	45.1(5.1)
	1990	55.2(1.7)	56.3(1.9)	54.1(2.3)	59.4(1.7)	39.9(2.8)	40.9(4.0)
	1986	49.1(1.4)	51.7(1.7)	46.3(1.7)	54.7(1.7)	29.3(2.1)	31.7(3.0)
	1982	34.9(1.5)	37.8(2.4)	32.1(2.4)	38.5(1.8)	16.8(1.9)	24.1(5.1)
	1978	28.6(1.5)	29.4(1.9)	27.7(1.9)	31.9(1.8)	16.6(3.1)	11.3(3.6)
Solve time problem	1994	71.2(1.1)	73.5(1.9)	68.8(1.2)	75.0(1.2)	60.5(3.4)	58.0(4.4)
	1992	71.5(1.2)	73.8(1.4)	69.3(1.5)	74.1(1.2)	58.6(2.3)	68.9(4.6)
	1990	72.4(1.3)	75.7(1.4)	69.1(1.9)	74.5(1.3)	63.0(4.0)	67.5(3.9)
	1986	65.3(1.5)	69.7(1.9)	60.6(1.9)	68.7(1.7)	49.8(2.5)	56.4(5.8)
	1982	57.6(1.5)	58.4(2.2)	56.8(2.1)	61.7(1.8)	36.6(2.5)	47.2(4.4)
Find perimeter of rectangle	1994	22.8(1.2)	23.0(1.9)	22.7(1.3)	25.1(1.4)	13.2(2.4)	17.6(4.0)
	1992	22.4(1.3)	23.9(1.6)	20.9(1.5)	24.1(1.6)	17.1(2.3)	15.8(2.4)
	1990	20.0(1.2)	23.7(1.8)	16.4(1.3)	21.0(1.3)	14.9(2.4)	18.2(2.6)
	1986	15.8(1.1)	16.6(1.4)	14.9(1.2)	17.5(1.2)	10.3(1.5)	9.8(3.2)
	1982	11.5(1.1)	12.7(1.6)	10.2(1.1)	11.0(1.3)	13.8(2.0)	11.5(2.2)
Find perimeter of rectangle	1994	28.9(2.0)	30.9(2.4)	27.1(2.4)	31.7(2.4)	22.2(2.6)	15.9(3.0)
	1992	25.1(1.6)	26.4(1.8)	23.8(1.9)	27.5(1.9)	14.8(2.3)	19.9(4.3)
	1990	24.9(1.6)	26.0(2.4)	24.0(1.5)	27.0(2.1)	17.0(2.4)	17.4(4.0)
	1986	18.5(1.2)	20.4(1.6)	16.7(1.2)	19.0(1.5)	16.9(2.5)	10.8(3.2)
	1982	24.8(1.7)	25.6(1.9)	24.0(2.4)	26.9(2.0)	12.9(1.7)	21.3(4.3)
Determine distance on map	1994	15.1(1.1)	14.2(1.6)	15.9(1.3)	14.7(1.2)	14.3(2.3)	18.3(2.0)
	1992	15.0(0.9)	15.3(1.1)	14.8(1.1)	13.6(1.0)	19.5(2.6)	22.1(3.3)
	1990	14.1(1.0)	14.1(1.4)	14.1(1.2)	13.5(1.1)	15.7(2.2)	14.8(3.0)
	1986	15.7(1.0)	15.5(1.4)	15.8(1.2)	14.8(1.3)	19.8(2.0)	17.1(3.2)
	1982	19.0(1.1)	19.0(1.6)	19.1(1.5)	17.7(1.2)	23.2(2.8)	30.0(2.4)
Understand place value	1994	73.9(2.4)	77.5(2.7)	70.5(2.6)	78.5(2.3)	58.4(3.7)	66.6(5.4)
	1992	74.2(1.1)	77.6(1.4)	71.1(1.3)	78.7(1.1)	56.8(3.5)	61.5(6.0)
	1990	75.7(1.4)	77.4(1.7)	74.1(1.9)	81.1(1.4)	56.5(4.0)	63.4(4.6)
	1986	70.3(1.4)	71.3(1.8)	69.5(1.7)	75.5(1.5)	50.5(2.3)	50.5(6.0)
	1982	73.0(1.8)	75.1(2.6)	71.0(2.0)	77.1(1.9)	55.3(3.1)	57.2(5.0)
	1978	79.9(1.2)	81.3(1.8)	78.6(1.5)	84.9(1.1)	56.0(3.2)	69.8(4.3)
Identify greatest number	1994	82.2(0.9)	84.7(1.3)	79.7(1.4)	84.9(0.9)	75.7(2.8)	68.8(3.4)
	1992	81.7(0.8)	81.9(1.2)	81.4(1.3)	84.3(1.0)	69.9(3.1)	73.8(3.6)
	1990	80.5(1.2)	81.0(1.4)	80.1(1.6)	83.1(1.2)	71.0(2.6)	78.5(2.6)
	1986	76.9(1.3)	77.0(1.5)	76.8(1.5)	78.1(1.5)	71.3(2.2)	76.5(3.7)
	1982	75.3(1.4)	73.9(1.3)	76.7(2.1)	77.1(1.5)	66.7(2.3)	69.6(5.0)
	1978	75.1(1.0)	73.1(1.6)	77.0(1.1)	78.2(1.0)	62.6(3.1)	62.5(3.1)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Relate part to whole	1994	30.1(1.9)	32.2(2.4)	28.2(2.5)	30.8(2.2)	27.8(3.5)	21.3(4.2)
	1992	29.4(1.1)	30.9(1.5)	28.0(1.3)	31.9(1.4)	20.3(2.7)	20.5(3.1)
	1990	29.6(1.8)	30.5(2.3)	28.7(2.3)	30.8(1.9)	26.9(2.8)	25.7(3.4)
	1986	31.5(1.4)	33.0(1.7)	30.0(1.6)	33.6(1.6)	23.9(2.6)	23.5(3.1)
	1982	42.1(1.6)	44.4(2.0)	39.8(2.2)	45.5(2.0)	29.3(1.7)	24.2(4.4)
	1978	44.0(1.4)	43.7(1.5)	44.2(2.0)	46.6(1.5)	34.1(2.6)	30.5(3.9)
Estimate large number	1994	66.5(1.2)	69.4(1.9)	63.8(1.4)	69.1(1.6)	59.6(2.8)	56.5(4.6)
	1992	66.2(1.2)	68.0(1.5)	64.3(1.6)	70.1(1.3)	49.6(3.6)	56.6(3.2)
	1990	65.3(1.2)	66.9(1.6)	63.6(1.6)	68.8(1.3)	51.7(3.3)	51.8(3.8)
	1986	62.3(0.9)	63.2(1.3)	61.3(1.3)	65.1(1.2)	49.1(2.2)	56.5(4.1)
	1982	63.1(1.7)	62.8(1.8)	63.4(2.2)	65.8(1.9)	50.1(2.9)	53.9(6.0)
	Use property of transitivity	1994	75.6(1.9)	74.1(2.3)	77.1(2.3)	76.6(2.1)	75.0(3.3)
1992		73.2(1.6)	70.3(1.7)	75.9(2.0)	76.5(1.3)	59.7(4.5)	61.8(6.6)
1990		76.8(1.2)	73.8(1.4)	79.7(1.5)	79.1(1.3)	68.9(3.1)	69.8(5.3)
1986		72.6(1.8)	69.7(2.1)	75.3(2.1)	74.7(2.1)	61.7(3.7)	69.2(6.1)
1982		78.0(1.2)	76.9(1.8)	79.0(1.2)	80.7(1.1)	64.8(3.8)	74.8(5.4)
1978		73.3(1.2)	69.4(1.4)	77.3(1.7)	75.4(1.4)	68.1(2.5)	54.8(5.6)
Determine age relationship	1994	56.2(1.3)	57.8(2.1)	54.6(1.4)	60.3(1.5)	39.5(2.5)	39.7(4.1)
	1992	56.1(1.3)	60.5(1.7)	52.1(1.7)	59.6(1.5)	42.2(3.1)	46.6(4.4)
	1990	55.9(1.5)	55.9(1.9)	55.9(2.0)	59.6(1.5)	42.3(4.4)	43.3(2.9)
	1986	54.4(1.1)	57.3(1.3)	51.6(1.9)	57.2(1.4)	40.5(3.3)	55.1(3.7)
	1982	48.2(1.3)	49.2(1.8)	47.4(1.6)	50.6(1.4)	37.5(3.0)	42.5(3.9)
	1978	49.7(1.5)	50.0(1.8)	49.5(2.0)	50.9(1.8)	43.8(2.4)	43.6(8.6)
Identify valid conclusion	1994	62.7(1.6)	65.0(1.9)	60.7(2.2)	65.8(1.4)	54.5(3.4)	48.6(4.6)
	1992	63.1(1.0)	63.5(1.2)	62.6(1.5)	66.2(1.2)	54.2(2.7)	51.0(3.8)
	1990	65.7(1.2)	64.7(1.9)	66.7(1.9)	68.8(1.7)	57.6(3.4)	50.2(4.7)
	1986	63.4(1.5)	61.8(2.3)	65.0(1.7)	66.1(1.5)	53.3(3.3)	57.7(4.4)
	1982	60.2(1.5)	58.4(2.3)	61.8(1.8)	60.8(1.7)	57.4(2.6)	55.9(4.1)
	1978	66.7(1.5)	65.5(1.9)	67.9(2.1)	67.7(1.5)	60.7(3.3)	66.8(5.0)
Identify valid conclusion	1994	24.1(1.3)	24.4(1.5)	23.8(1.9)	24.5(1.6)	21.1(2.2)	27.1(3.9)
	1992	21.8(0.8)	20.3(1.1)	23.2(1.4)	22.6(1.0)	19.2(2.1)	22.3(3.2)
	1990	22.9(1.0)	22.9(1.4)	22.8(1.5)	22.7(1.2)	21.4(2.8)	26.6(3.1)
	1986	22.0(0.9)	20.5(1.3)	23.5(1.4)	22.0(1.0)	23.7(2.5)	18.6(2.8)
	1982	23.6(1.3)	24.2(1.7)	23.0(1.8)	24.5(1.5)	20.0(2.7)	21.1(2.1)
	1978	25.1(1.3)	25.5(1.9)	24.7(1.4)	26.3(1.4)	21.2(3.0)	20.1(3.9)
Read circle graph	1994	81.6(1.2)	80.1(1.7)	83.2(1.6)	85.1(1.2)	72.7(2.8)	62.3(5.1)
	1992	84.3(1.0)	83.1(1.2)	85.5(1.3)	87.1(1.0)	73.9(2.7)	73.1(4.6)
	1990	83.9(1.4)	82.0(1.7)	85.8(1.6)	86.9(1.3)	75.1(3.9)	73.1(4.6)
	1986	77.6(1.4)	77.4(1.6)	77.7(1.6)	80.5(1.5)	70.1(2.7)	62.3(5.6)
	1982	82.6(1.2)	80.9(1.6)	84.3(1.3)	85.8(1.2)	67.4(2.5)	76.5(6.1)
	1978	74.7(1.5)	72.0(2.0)	77.2(1.6)	78.1(1.4)	56.7(3.3)	68.2(4.0)
Interpret data in circle graph	1994	70.3(1.6)	66.9(2.2)	73.6(1.7)	75.6(1.9)	54.2(3.0)	49.5(5.3)
	1992	72.4(1.2)	68.9(1.9)	76.0(1.3)	75.8(1.3)	63.8(3.0)	54.8(4.9)
	1990	72.2(1.5)	69.9(1.9)	74.5(1.8)	76.1(1.6)	60.6(3.6)	61.2(3.9)
	1986	60.5(1.8)	57.6(1.9)	63.7(2.0)	63.6(1.8)	50.1(2.9)	49.9(8.1)
	1982	72.8(1.5)	70.2(1.7)	75.4(1.9)	76.0(1.2)	54.6(3.9)	73.0(5.3)
	1978	59.1(1.6)	54.0(2.2)	63.7(1.8)	62.3(1.7)	44.6(3.1)	45.5(5.0)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Estimate weight (metric)	1994	23.4(1.9)	27.3(2.0)	19.6(2.2)	22.6(2.4)	26.1(3.2)	21.4(4.0)
	1992	24.4(1.3)	26.9(1.7)	22.1(1.7)	24.2(1.4)	25.1(3.2)	21.6(3.0)
	1990	23.0(1.2)	25.6(1.6)	20.6(1.6)	22.6(1.4)	22.2(2.3)	30.6(5.3)
	1986	24.5(1.3)	29.0(1.6)	20.2(1.7)	23.7(1.3)	29.5(3.7)	22.6(4.6)
	1982	37.2(1.7)	38.9(2.0)	35.3(2.3)	35.4(2.0)	45.0(2.5)	40.8(5.1)
Identify greatest metric unit	1994	41.3(2.5)	46.7(2.5)	36.2(2.9)	44.6(2.5)	31.0(5.3)	24.3(4.2)
	1992	41.9(1.8)	45.9(2.3)	38.3(2.4)	44.3(2.2)	34.5(3.1)	28.8(2.9)
	1990	38.4(2.3)	41.5(2.8)	35.5(2.4)	41.1(2.6)	26.0(2.9)	34.0(4.9)
	1986	28.5(1.8)	32.4(1.9)	24.8(2.2)	30.0(1.9)	22.0(2.8)	23.7(4.9)
	1982	38.5(1.9)	41.0(1.7)	36.1(2.5)	39.5(2.2)	36.6(3.3)	31.2(2.3)
	1978	36.6(1.5)	37.2(1.9)	36.0(2.0)	38.2(1.6)	24.6(1.5)	38.3(4.7)
Read scale	1994	86.4(0.7)	87.9(0.8)	85.1(1.2)	88.5(0.7)	75.6(3.0)	81.9(3.7)
	1992	86.8(0.9)	87.3(1.1)	86.3(1.1)	90.1(0.8)	74.2(3.0)	80.4(3.4)
	1990	87.2(1.1)	87.0(1.4)	87.5(1.3)	90.7(0.9)	72.1(4.9)	80.3(2.9)
	1986	83.8(1.0)	85.2(1.3)	82.3(1.2)	87.5(1.0)	68.3(2.6)	75.4(3.4)
	1982	79.5(1.2)	79.2(1.4)	79.8(1.5)	84.3(0.9)	57.1(2.8)	70.1(2.8)
	1978	80.3(1.1)	81.1(1.5)	79.5(1.5)	84.1(1.1)	63.4(2.7)	72.0(4.3)
Identify greatest money value	1994	77.5(1.2)	80.2(1.4)	74.9(1.8)	82.1(1.3)	64.3(3.2)	58.3(5.1)
	1992	73.2(1.2)	76.5(1.6)	70.2(1.5)	78.6(1.1)	54.1(2.7)	52.4(4.1)
	1990	77.5(1.1)	79.8(1.6)	75.3(1.6)	82.1(1.2)	62.5(3.2)	65.6(4.3)
	1986	74.4(1.4)	76.5(1.9)	72.4(1.6)	79.1(1.6)	56.5(3.5)	63.6(5.3)
	1982	74.3(1.5)	76.7(1.6)	72.1(1.8)	78.9(1.4)	54.7(3.1)	57.7(5.4)
	1978	76.0(1.3)	77.5(1.7)	74.5(1.7)	80.5(1.3)	57.3(4.7)	57.8(4.8)
Identify greatest money value	1994	62.4(1.4)	67.0(1.6)	58.1(2.0)	67.2(1.5)	48.1(3.4)	48.8(6.0)
	1992	57.3(1.4)	61.2(1.6)	53.7(1.7)	62.9(1.5)	36.4(2.1)	38.3(4.5)
	1990	61.6(1.5)	63.8(1.9)	59.5(2.0)	66.6(1.9)	44.0(3.1)	53.3(4.6)
	1986	56.7(1.9)	58.8(2.3)	54.7(2.5)	60.9(1.9)	40.8(4.4)	38.4(4.7)
	1982	57.5(1.5)	59.2(2.3)	55.9(1.9)	62.2(1.5)	37.4(3.1)	38.0(4.5)
	1978	61.4(1.4)	62.3(1.8)	60.5(1.9)	65.5(1.5)	41.9(4.2)	50.0(4.7)
Solve money problem	1994	47.7(1.7)	49.4(2.0)	46.2(2.5)	51.3(2.0)	34.7(2.6)	35.5(6.1)
	1992	43.1(1.2)	47.4(1.7)	39.3(1.7)	46.9(1.3)	29.1(3.2)	28.7(4.6)
	1990	43.2(1.4)	43.2(1.9)	43.2(1.7)	46.8(1.6)	29.7(3.5)	30.5(3.9)
	1986	37.9(1.3)	37.2(1.7)	38.6(2.0)	42.5(1.6)	21.8(2.7)	22.6(2.3)
	1982	34.2(1.4)	33.8(1.5)	34.6(2.0)	36.5(1.4)	23.3(2.2)	26.8(3.5)
	1978	37.9(1.2)	40.7(1.6)	35.1(1.5)	40.8(1.3)	25.9(2.6)	28.8(5.1)
Solve money problem	1994	43.3(2.1)	42.7(2.8)	44.2(2.1)	46.9(2.3)	24.2(3.3)	36.6(4.5)
	1992	39.3(1.1)	41.7(1.6)	37.1(1.6)	43.9(1.4)	21.3(2.5)	21.5(3.4)
	1990	35.1(1.9)	35.4(2.0)	34.8(2.3)	38.7(2.1)	21.1(4.2)	23.6(4.0)
	1986	29.9(1.6)	31.6(2.3)	28.3(1.7)	32.7(1.9)	20.3(2.8)	17.9(3.6)
	1982	28.9(1.6)	31.5(1.7)	26.4(2.0)	31.9(2.0)	15.4(2.3)	15.9(3.2)
	1978	31.1(1.6)	31.2(2.0)	31.1(2.0)	34.4(1.8)	17.7(2.4)	20.1(4.0)
Find area of rectangle	1994	9.8(0.7)	9.2(1.0)	10.5(1.1)	9.8(0.9)	10.9(2.1)	4.9(1.4)
	1992	9.5(0.9)	9.8(1.1)	9.1(1.1)	9.1(0.9)	10.8(2.5)	8.9(3.2)
	1990	9.9(1.4)	9.3(1.4)	10.4(1.9)	10.1(1.6)	7.9(2.1)	5.5(2.1)
	1986	9.2(1.0)	8.6(1.1)	9.8(1.3)	9.6(1.3)	8.4(1.7)	3.5(1.8)
	1982	8.4(1.1)	7.8(1.3)	8.9(1.6)	9.0(1.4)	4.2(1.2)	7.9(3.1)
	1978	3.4(0.5)	3.0(0.5)	3.9(0.7)	3.8(0.6)	2.0(0.6)	2.1(1.5)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Find area of rectangle	1994	35.5(1.2)	35.1(1.9)	36.0(1.7)	37.2(1.5)	29.6(3.6)	30.7(3.6)
	1992	32.9(1.6)	35.2(2.0)	30.8(2.0)	34.5(1.8)	29.8(3.5)	21.3(3.6)
	1990	33.6(1.5)	34.2(2.0)	33.0(1.8)	35.4(1.7)	29.8(2.9)	19.6(3.6)
	1986	29.3(1.3)	30.6(1.8)	28.0(1.6)	30.1(1.3)	25.8(3.9)	22.1(3.3)
	1982	24.8(1.6)	26.2(2.2)	23.5(1.9)	25.0(1.9)	21.5(3.0)	24.3(4.1)
	1978	27.7(1.4)	26.2(1.7)	29.2(2.1)	28.0(1.6)	26.4(2.7)	22.2(4.6)
Apply property of square	1994	65.4(1.5)	63.5(2.1)	67.3(2.2)	72.1(1.4)	40.6(3.7)	54.6(5.2)
	1992	60.4(1.3)	60.9(1.7)	60.0(1.8)	65.7(1.5)	40.2(3.6)	46.1(3.9)
	1990	64.8(1.5)	64.4(1.9)	65.2(1.8)	70.4(1.3)	44.6(3.9)	53.8(4.2)
	1986	62.4(1.5)	62.0(1.6)	62.7(2.1)	68.1(1.5)	41.7(2.9)	42.8(4.5)
	1982	64.5(1.7)	63.0(2.0)	66.0(2.1)	69.4(1.9)	41.1(3.1)	54.0(5.4)
	1978	66.4(1.4)	66.4(1.9)	66.4(1.6)	71.6(1.3)	40.3(2.6)	57.6(4.5)
Solve number sentence	1994	91.2(1.8)	91.5(1.6)	90.9(2.1)	92.6(1.8)	86.5(3.3)	92.2(1.8)
	1992	94.5(0.8)	94.2(1.0)	94.8(0.8)	95.4(0.7)	90.6(1.7)	91.7(4.2)
	1990	94.7(0.7)	94.1(1.0)	95.3(0.9)	95.4(0.6)	92.0(1.9)	93.8(2.1)
	1986	92.3(0.6)	92.0(0.9)	92.7(0.9)	93.9(0.8)	85.1(2.0)	88.5(3.1)
	1982	90.7(0.8)	88.5(1.1)	92.8(0.9)	92.4(0.8)	82.9(2.2)	85.0(3.0)
	1978	92.3(1.1)	91.0(1.6)	93.6(1.0)	94.8(0.8)	78.2(4.5)	90.2(2.6)
Solve number sentence	1994	54.4(1.5)	54.8(2.5)	54.3(1.4)	58.5(1.9)	42.7(3.1)	36.1(4.8)
	1992	51.3(1.4)	52.6(1.6)	50.0(1.8)	54.5(1.4)	37.1(2.9)	45.5(4.1)
	1990	47.0(1.4)	46.9(2.0)	47.0(1.8)	49.5(1.5)	37.1(2.7)	38.3(4.5)
	1986	50.5(1.8)	51.9(2.1)	48.9(2.0)	52.4(2.1)	44.9(3.3)	40.0(8.6)
	1982	55.9(1.8)	53.9(2.0)	57.9(2.6)	57.9(2.0)	47.0(2.8)	45.5(6.3)
	1978	63.1(1.7)	61.4(1.8)	64.8(2.3)	66.3(1.6)	46.4(4.0)	53.8(8.1)
Understand place value	1994	79.0(1.1)	79.1(1.3)	78.8(1.6)	81.0(1.0)	71.8(3.7)	70.3(4.5)
	1992	81.4(1.1)	82.2(1.3)	80.7(1.4)	83.2(0.9)	75.0(3.5)	74.4(3.8)
	1990	78.8(1.4)	78.6(1.8)	79.1(1.8)	81.5(1.5)	66.4(3.8)	70.5(3.3)
	1986	72.7(1.5)	71.9(1.7)	73.5(2.0)	74.5(1.7)	68.3(2.3)	62.3(6.8)
	1982	76.6(1.8)	74.7(2.1)	78.7(2.3)	78.3(2.1)	70.0(3.3)	66.4(5.5)
Understand place value	1994	67.1(2.2)	66.7(2.5)	67.5(2.4)	71.3(2.3)	56.5(3.1)	46.9(5.4)
	1992	62.3(1.5)	63.7(1.8)	60.9(1.7)	66.9(1.4)	44.9(3.2)	45.6(6.5)
	1990	64.6(1.7)	64.6(2.3)	64.6(1.8)	67.9(2.0)	51.1(3.9)	61.8(4.4)
	1986	59.3(1.6)	57.4(2.0)	61.1(1.9)	62.5(2.0)	46.2(4.6)	49.5(4.5)
	1982	63.0(2.1)	61.7(2.3)	64.4(2.5)	65.8(2.5)	50.0(3.3)	50.7(2.8)
Apply multiplication	1994	93.7(0.6)	93.0(1.0)	94.3(0.8)	94.5(0.6)	90.5(1.8)	91.2(1.4)
	1992	94.4(0.6)	94.5(0.7)	94.3(0.7)	96.1(0.5)	88.6(1.6)	89.6(2.6)
	1990	94.3(0.7)	93.9(0.9)	94.6(1.1)	95.6(0.7)	89.0(1.9)	91.4(2.8)
	1986	91.8(0.6)	92.2(0.9)	91.3(0.7)	93.3(0.7)	87.1(1.8)	88.3(3.2)
	1982	92.7(0.7)	92.0(1.1)	93.4(0.9)	94.4(0.5)	86.2(2.7)	85.8(2.7)
Translate words to numbers	1994	88.2(1.0)	87.7(1.3)	88.7(1.1)	89.4(1.1)	83.8(2.3)	81.2(3.6)
	1992	91.0(0.7)	90.8(0.9)	91.2(1.0)	93.1(0.7)	83.6(2.1)	84.7(2.4)
	1990	90.0(1.1)	88.6(1.3)	91.4(1.3)	92.4(0.9)	81.4(4.0)	80.0(4.0)
	1986	84.4(1.1)	81.8(1.7)	86.9(1.0)	87.6(1.2)	74.0(2.7)	71.3(4.5)
	1982	87.8(0.7)	84.7(1.1)	91.0(0.7)	89.0(0.7)	80.5(2.2)	86.5(2.7)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Identify true statement	1994	76.0(1.5)	76.1(1.7)	75.8(2.2)	79.2(1.6)	65.0(4.0)	64.2(5.6)
	1992	77.7(1.1)	76.4(1.4)	78.9(1.6)	79.7(1.1)	67.8(2.8)	74.7(3.9)
	1990	77.2(1.3)	75.9(2.0)	78.5(1.8)	79.4(1.3)	71.9(2.7)	63.6(5.8)
	1986	69.8(1.9)	71.0(1.8)	68.6(2.6)	72.6(2.2)	59.9(3.5)	61.2(7.5)
	1982	75.7(2.1)	74.4(2.4)	77.1(2.1)	78.1(2.4)	68.4(3.0)	60.0(6.0)
Write multiplication sentence	1994	73.8(1.6)	71.6(2.3)	75.8(1.6)	77.3(1.7)	68.2(3.4)	56.6(4.2)
	1992	71.2(1.7)	70.0(1.7)	72.4(2.2)	74.0(1.9)	59.6(3.0)	59.2(4.4)
	1990	70.6(1.6)	69.7(2.0)	71.5(1.9)	73.0(1.6)	62.1(3.7)	58.7(4.5)
	1986	66.3(1.6)	66.9(1.7)	65.8(2.1)	69.4(2.1)	57.5(2.8)	54.0(5.2)
	1982	67.0(2.1)	63.4(2.1)	70.3(2.8)	71.0(2.3)	48.6(3.1)	54.4(5.8)
	1978	66.6(1.4)	67.1(1.7)	66.1(2.1)	72.0(1.4)	44.5(3.9)	44.4(4.5)
Divide whole numbers	1994	73.7(1.7)	72.9(2.3)	74.7(1.7)	74.3(1.8)	76.1(4.1)	62.1(5.4)
	1992	72.2(1.7)	72.6(1.9)	71.8(2.0)	73.0(1.7)	66.9(4.0)	69.5(4.2)
	1990	72.3(1.8)	70.3(2.0)	74.3(2.0)	72.3(1.9)	70.9(3.3)	64.7(4.2)
	1986	72.7(1.6)	71.1(1.9)	74.4(1.8)	72.6(1.7)	75.2(3.2)	68.4(7.2)
	1982	74.4(1.3)	72.8(1.7)	76.1(1.6)	76.0(1.7)	65.7(2.5)	70.8(4.8)
	1978	74.2(1.4)	73.4(1.7)	75.1(1.8)	77.2(1.5)	62.1(3.9)	65.2(6.6)
Divide whole numbers	1994	26.1(2.4)	27.0(2.9)	25.3(2.4)	27.9(2.8)	21.4(3.9)	15.0(2.7)
	1992	26.5(1.9)	27.6(1.9)	25.4(2.2)	27.8(2.0)	17.6(2.7)	22.1(4.8)
	1990	25.9(1.9)	26.5(2.0)	25.4(2.2)	26.6(2.2)	20.9(2.8)	21.2(3.0)
	1986	18.8(1.2)	19.5(1.8)	18.2(1.3)	19.4(1.4)	18.4(4.1)	11.0(4.4)
	1982	14.2(1.5)	14.5(1.5)	14.0(1.9)	14.3(1.8)	11.5(1.6)	14.7(3.6)
	1978	18.7(1.5)	17.6(1.4)	19.8(2.2)	20.1(1.7)	13.3(2.4)	13.7(4.5)
Divide whole numbers	1994	80.5(1.4)	79.2(1.7)	81.9(1.7)	80.4(1.5)	78.7(4.7)	77.5(3.6)
	1992	80.5(1.2)	79.9(1.4)	80.9(1.7)	82.0(1.4)	74.6(2.4)	71.6(4.3)
	1990	77.3(1.5)	70.8(2.0)	84.0(1.6)	79.0(1.5)	67.0(3.9)	79.3(2.8)
	1986	73.9(1.0)	71.0(1.6)	76.7(1.3)	75.7(1.2)	66.4(2.4)	66.7(5.4)
	1982	77.7(1.8)	74.8(1.7)	80.7(2.6)	79.6(1.8)	67.9(3.6)	73.2(6.6)
	1978	75.5(1.7)	71.7(1.9)	79.6(2.0)	79.0(1.6)	62.1(4.1)	58.9(7.4)
Divide whole numbers	1994	74.5(1.8)	72.5(2.3)	76.4(2.0)	75.6(1.9)	71.1(5.2)	64.7(4.2)
	1992	74.1(1.4)	71.4(1.7)	76.5(1.8)	76.6(1.5)	64.6(3.3)	63.1(4.1)
	1990	69.3(1.5)	63.9(2.2)	74.9(1.9)	72.3(1.3)	56.0(4.2)	65.3(3.3)
	1986	64.0(1.6)	58.3(2.1)	69.5(1.8)	66.6(1.5)	51.8(4.5)	58.1(6.9)
	1982	67.8(2.1)	63.7(2.4)	71.9(2.4)	70.1(2.6)	52.7(3.2)	66.9(5.6)
	1978	70.2(1.6)	65.9(1.9)	75.0(1.8)	74.5(1.5)	53.9(3.8)	51.8(7.7)
Apply operation of subtraction	1994	78.7(1.5)	80.2(1.6)	77.4(1.9)	84.9(1.2)	54.8(3.8)	68.1(4.8)
	1992	75.8(1.3)	78.5(1.5)	73.3(1.5)	82.6(1.2)	50.8(3.1)	57.3(5.0)
	1990	75.9(1.2)	78.1(1.4)	73.8(1.7)	82.7(1.0)	51.7(3.3)	61.9(4.7)
	1986	70.6(1.5)	70.4(2.1)	70.7(1.7)	76.1(1.7)	47.0(3.0)	61.7(6.0)
	1982	71.5(2.1)	73.0(2.2)	70.2(2.5)	77.3(2.3)	47.4(2.8)	50.6(3.5)
	1978	69.5(1.6)	70.7(2.1)	68.2(1.6)	74.5(1.5)	48.6(4.5)	54.0(6.2)
Determine amount of change	1994	83.5(1.0)	85.9(1.4)	81.0(1.5)	86.2(1.1)	76.1(3.3)	67.9(3.4)
	1992	82.7(1.0)	85.6(1.4)	79.8(1.1)	86.0(1.0)	70.2(2.2)	73.8(3.1)
	1990	83.5(1.0)	85.0(1.4)	82.1(1.3)	86.6(1.0)	71.4(2.9)	74.1(3.7)
	1986	81.2(1.0)	84.7(1.4)	77.4(1.3)	84.2(1.0)	68.3(3.6)	75.9(4.6)
	1982	82.6(1.1)	83.7(1.3)	81.4(1.8)	85.4(1.2)	70.0(4.3)	71.7(3.6)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Add whole numbers	1994	95.6(0.9)	96.1(0.8)	95.1(1.1)	96.6(0.8)	94.0(1.6)	92.3(2.2)
	1992	95.9(0.5)	95.8(0.8)	96.0(0.5)	96.3(0.6)	94.3(1.2)	94.8(1.7)
	1990	96.6(0.4)	96.7(0.6)	96.5(0.6)	97.4(0.4)	93.8(1.4)	90.8(1.6)
	1986	95.9(0.4)	94.5(0.7)	97.1(0.5)	96.1(0.5)	95.7(0.9)	94.4(1.6)
	1982	89.8(0.9)	89.9(1.4)	89.6(1.1)	90.2(1.0)	86.0(2.3)	91.5(1.4)
Add whole numbers	1994	87.2(1.3)	86.3(1.7)	88.2(1.4)	89.4(1.3)	81.1(2.7)	77.9(4.5)
	1992	88.5(0.7)	87.4(1.0)	89.6(0.8)	89.7(0.8)	81.9(2.4)	88.6(4.0)
	1990	89.7(0.9)	89.4(1.2)	90.1(1.1)	91.7(0.9)	83.0(2.4)	82.9(3.7)
	1986	86.6(1.0)	83.8(1.2)	89.3(1.2)	88.0(1.1)	79.1(2.6)	86.1(2.6)
	1982	83.8(0.9)	81.8(1.5)	85.9(1.3)	85.8(1.0)	72.9(2.6)	82.2(3.1)
Add whole numbers	1994	51.1(1.2)	47.2(1.8)	54.7(1.9)	53.0(1.4)	42.8(2.4)	50.8(3.7)
	1992	52.0(1.2)	49.0(1.6)	54.7(1.7)	54.2(1.4)	43.1(2.9)	45.6(3.8)
	1990	53.6(1.5)	50.0(2.0)	56.9(1.7)	56.4(1.7)	41.4(2.7)	46.8(4.0)
	1986	53.1(1.8)	47.4(2.3)	58.4(2.1)	55.6(2.3)	42.3(2.8)	44.2(4.0)
	1982	46.4(1.5)	42.3(1.5)	50.8(2.2)	50.4(1.6)	28.6(3.4)	33.0(4.3)
Add whole numbers	1994	95.9(0.6)	95.3(0.8)	96.7(0.6)	96.1(0.6)	94.2(2.2)	96.2(1.0)
	1992	96.4(0.4)	96.0(0.6)	96.8(0.4)	96.7(0.5)	95.7(1.0)	94.4(1.6)
	1990	94.3(0.7)	93.3(0.8)	95.2(0.9)	94.4(0.7)	92.7(1.5)	94.3(2.4)
	1986	93.5(0.7)	91.5(0.9)	95.4(0.7)	94.3(0.9)	90.0(1.3)	89.0(2.3)
	1982	94.4(0.6)	93.2(0.8)	95.5(0.8)	95.7(0.7)	89.8(1.6)	87.3(2.5)
Add whole numbers	1994	93.7(0.6)	93.1(0.9)	94.3(0.7)	94.1(0.6)	92.1(1.8)	90.1(2.7)
	1992	94.6(0.5)	94.0(1.0)	95.2(0.6)	95.3(0.6)	92.7(1.0)	89.9(1.7)
	1990	90.3(0.9)	88.9(1.2)	91.7(1.1)	91.5(0.9)	83.1(2.4)	89.5(2.7)
	1986	90.7(0.8)	90.4(1.0)	91.0(1.2)	92.3(1.0)	85.2(1.6)	86.8(2.1)
	1982	89.4(1.0)	88.9(1.1)	89.9(1.2)	92.5(0.6)	75.5(3.4)	80.9(3.4)
Add whole numbers	1994	70.8(1.3)	68.5(1.9)	73.0(2.0)	72.9(1.6)	63.7(3.5)	61.4(3.2)
	1992	69.1(1.2)	66.1(1.6)	71.8(1.5)	72.7(1.2)	56.4(2.6)	59.1(3.4)
	1990	65.1(1.7)	62.3(2.1)	68.0(1.9)	68.9(1.6)	46.9(5.0)	62.4(4.3)
	1986	56.0(1.7)	54.5(1.9)	57.5(2.1)	59.0(1.8)	46.8(3.1)	43.7(4.8)
	1982	54.7(1.9)	53.2(2.2)	56.1(2.4)	59.5(2.1)	34.3(3.2)	34.6(4.5)
Apply operation of addition	1994	89.5(1.0)	89.7(1.3)	89.3(1.2)	91.7(0.9)	84.0(1.7)	82.3(4.3)
	1992	89.5(0.7)	88.7(0.9)	90.3(1.1)	90.6(0.8)	85.2(2.5)	87.4(2.7)
	1990	91.4(0.9)	90.5(1.3)	92.3(1.0)	92.9(0.9)	86.0(2.7)	86.8(2.7)
	1986	89.9(0.7)	85.8(1.0)	93.8(0.9)	90.1(0.8)	90.2(1.5)	87.0(3.7)
	1982	85.1(0.9)	84.4(1.2)	85.9(1.0)	87.0(0.9)	78.8(2.6)	74.7(3.1)
Add whole numbers	1994	65.4(1.2)	66.7(2.0)	64.1(1.2)	67.9(1.5)	58.1(4.1)	58.1(5.1)
	1992	63.1(1.2)	61.3(1.6)	64.9(2.1)	65.0(1.3)	53.0(2.5)	56.6(4.5)
	1990	62.9(1.5)	61.1(2.1)	64.6(2.0)	65.0(1.7)	55.5(2.8)	56.8(4.5)
	1986	57.6(1.5)	56.2(2.1)	59.2(1.7)	60.5(1.7)	45.5(3.6)	51.2(6.0)
	1982	65.5(1.4)	64.6(1.9)	66.3(1.7)	68.2(1.5)	48.7(2.9)	64.9(2.8)
	1978	66.2(1.5)	63.7(2.1)	68.6(1.8)	69.1(1.6)	52.9(4.0)	60.5(5.7)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Subtract whole numbers	1994	73.1(1.3)	70.1(2.0)	75.9(1.6)	76.3(1.7)	63.3(3.2)	63.5(3.3)
	1992	76.3(1.1)	74.4(1.5)	78.4(1.5)	78.5(1.1)	64.3(2.5)	74.9(3.7)
	1990	76.5(1.4)	73.2(1.5)	79.7(2.3)	78.3(1.4)	69.7(4.0)	68.5(4.0)
	1986	75.5(1.3)	75.8(1.3)	75.0(2.0)	77.8(1.6)	66.1(3.4)	71.5(5.8)
	1982	68.4(1.4)	63.2(2.3)	73.6(1.5)	70.8(1.6)	57.6(3.1)	57.1(6.2)
	1978	65.5(2.1)	62.0(2.6)	69.1(2.1)	68.6(2.4)	46.2(3.8)	65.3(6.1)
Subtract whole numbers	1994	52.5(1.6)	51.6(2.4)	53.3(1.9)	56.5(1.9)	41.8(3.2)	39.1(3.7)
	1992	52.9(1.8)	52.4(2.4)	53.5(1.9)	56.1(2.0)	37.0(3.7)	47.1(3.1)
	1990	54.5(1.7)	52.7(2.2)	56.3(2.0)	57.3(1.6)	42.1(4.6)	46.6(4.9)
	1986	54.3(1.9)	51.9(2.2)	57.0(2.4)	58.0(2.2)	38.3(2.8)	45.3(5.6)
	1982	43.3(2.0)	40.7(2.2)	45.9(2.2)	46.1(2.4)	27.2(2.7)	34.5(7.8)
	1978	42.9(2.2)	39.6(2.5)	46.2(2.6)	47.0(2.5)	21.4(3.1)	34.2(3.3)
Subtract whole numbers	1994	54.4(1.7)	54.0(2.3)	54.8(2.1)	58.7(1.9)	39.3(4.0)	41.7(3.8)
	1992	57.3(1.3)	55.8(1.6)	59.0(2.0)	61.1(1.4)	41.1(2.8)	49.4(5.5)
	1990	59.2(1.6)	55.8(1.9)	62.6(2.1)	61.9(1.4)	48.7(5.3)	46.8(5.5)
	1986	59.8(1.7)	61.1(1.9)	58.5(2.1)	63.8(1.9)	43.4(2.9)	51.1(7.1)
	1982	48.4(2.1)	44.8(2.2)	52.0(2.6)	50.5(2.5)	36.1(3.1)	41.2(5.6)
	1978	49.4(2.7)	46.8(3.3)	52.0(2.6)	53.2(3.1)	26.7(3.7)	49.3(7.1)
Subtract whole numbers	1994	91.2(0.8)	89.9(1.3)	92.3(1.0)	92.0(0.8)	88.1(2.7)	86.1(3.2)
	1992	92.1(0.6)	90.8(0.8)	93.3(0.7)	93.5(0.5)	86.3(1.8)	89.0(1.9)
	1990	90.3(1.0)	87.8(1.3)	92.9(1.1)	92.7(0.7)	78.6(2.8)	87.8(2.4)
	1986	89.4(0.8)	87.3(1.3)	91.5(0.8)	92.5(0.8)	79.5(2.3)	78.8(2.4)
	1982	89.2(0.8)	87.1(1.1)	91.3(1.0)	91.8(0.7)	77.1(2.4)	83.2(3.3)
	1978	84.3(1.1)	83.0(1.4)	85.8(1.5)	87.9(1.0)	69.4(3.2)	73.2(4.6)
Subtract whole numbers	1994	87.7(0.9)	84.9(1.5)	90.5(1.0)	88.3(0.9)	84.8(2.1)	86.9(2.3)
	1992	89.6(0.7)	87.8(1.1)	91.2(1.0)	90.9(0.8)	84.0(1.9)	89.3(2.1)
	1990	87.5(1.1)	84.5(1.8)	90.5(1.1)	90.4(1.0)	75.8(3.8)	77.2(3.2)
	1986	86.3(0.9)	84.2(1.2)	88.4(1.3)	89.2(1.0)	75.6(2.3)	78.5(2.8)
	1982	86.3(1.1)	83.9(1.8)	88.8(1.1)	89.2(1.1)	71.2(2.4)	84.2(2.6)
	1978	79.5(1.2)	77.1(1.6)	82.2(1.4)	83.1(0.9)	63.4(3.9)	70.5(2.7)
Subtract whole numbers	1994	88.6(0.8)	88.2(1.3)	89.1(1.1)	89.8(0.8)	84.2(1.9)	85.6(2.4)
	1992	90.3(0.6)	89.5(1.1)	90.9(0.8)	91.5(0.7)	85.5(1.8)	87.8(2.0)
	1990	87.2(1.0)	84.5(1.4)	89.9(1.3)	89.0(0.9)	78.4(2.9)	82.9(2.7)
	1986	85.3(1.0)	82.4(1.3)	88.0(1.3)	88.7(1.0)	74.7(3.2)	71.3(2.3)
	1982	85.6(1.0)	83.1(1.4)	88.1(1.2)	88.6(0.9)	69.3(2.1)	81.4(2.5)
	1978	79.8(1.2)	77.8(1.4)	82.1(1.6)	83.7(1.0)	60.4(3.2)	74.4(3.4)
Multiply whole numbers	1994	72.1(1.5)	71.5(1.9)	72.7(2.0)	73.4(1.7)	68.2(2.9)	62.4(5.8)
	1992	67.8(1.5)	66.8(2.0)	68.8(1.9)	68.7(1.4)	62.1(2.6)	60.0(4.2)
	1990	71.4(1.4)	68.6(1.9)	73.9(1.6)	72.3(1.5)	64.4(2.8)	72.6(4.3)
	1986	64.9(1.7)	61.2(2.3)	68.4(1.6)	66.5(1.7)	62.6(3.8)	47.8(5.0)
	1982	61.0(3.1)	55.5(3.0)	66.5(3.4)	61.9(4.0)	52.9(3.6)	65.7(5.7)
	1978	64.0(1.6)	62.1(1.8)	65.9(2.1)	66.1(1.6)	53.7(3.4)	53.0(8.9)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Multiply whole numbers	1994	13.9(1.6)	10.8(1.6)	16.8(2.0)	14.8(1.9)	8.5(1.9)	4.4(1.5)
	1992	10.6(1.2)	10.4(1.1)	10.8(1.8)	11.1(1.3)	4.9(1.7)	10.2(2.9)
	1990	16.4(2.0)	15.0(2.0)	17.8(2.4)	17.1(2.3)	13.2(2.3)	9.4(2.8)
	1986	11.5(1.3)	10.3(1.6)	12.7(1.5)	12.1(1.4)	7.6(1.8)	8.0(2.5)
	1982	13.7(1.9)	12.3(1.9)	15.1(2.1)	14.9(2.2)	4.6(1.3)	15.2(5.8)
	1978	8.2(1.1)	7.1(1.1)	9.3(1.4)	9.0(1.3)	4.4(1.5)	6.4(2.6)
Multiply whole numbers	1994	91.4(0.7)	89.6(1.0)	93.0(0.9)	91.0(0.7)	93.8(2.1)	88.8(3.0)
	1992	91.1(0.6)	90.0(0.9)	92.1(0.8)	91.3(0.7)	89.7(1.2)	91.2(1.3)
	1990	91.1(0.8)	88.7(1.2)	93.5(0.9)	92.5(0.8)	84.5(2.5)	88.4(1.7)
	1986	88.8(1.0)	88.0(1.2)	89.6(1.4)	90.9(1.0)	82.2(2.0)	79.8(3.2)
	1982	87.8(0.9)	85.1(1.2)	90.6(1.0)	90.2(0.8)	76.4(2.6)	81.3(3.4)
	1978	88.7(0.9)	87.0(1.2)	90.6(1.2)	91.0(0.7)	77.3(3.0)	83.8(3.2)
Multiply whole numbers	1994	83.8(1.0)	82.5(1.8)	85.0(1.0)	84.2(1.1)	82.4(2.4)	82.9(3.0)
	1992	87.2(0.9)	85.3(1.5)	89.0(0.9)	88.4(1.0)	83.3(2.3)	87.3(1.9)
	1990	82.5(1.3)	79.9(1.7)	85.1(1.4)	85.3(1.3)	71.7(2.5)	78.7(3.5)
	1986	82.8(0.9)	81.0(1.6)	84.5(1.1)	85.6(0.9)	71.6(2.6)	78.7(2.8)
	1982	79.9(1.2)	77.7(1.8)	82.0(1.2)	82.7(1.1)	65.9(2.8)	71.4(3.5)
	1978	79.8(1.2)	76.4(1.4)	83.5(1.7)	82.6(1.0)	65.6(3.6)	74.3(5.7)
Apply place value	1994	73.2(1.8)	75.6(1.9)	70.8(2.4)	78.6(1.6)	53.9(3.6)	63.0(4.4)
	1992	71.5(1.4)	74.8(1.7)	68.5(1.6)	77.6(1.4)	50.9(3.0)	49.0(4.2)
	1990	71.4(1.5)	73.4(1.6)	69.5(1.8)	78.2(1.6)	46.3(3.4)	57.5(5.3)
	1986	64.8(1.8)	66.4(2.1)	63.2(2.1)	71.2(2.0)	40.9(3.8)	45.7(4.8)
	1982	67.4(2.0)	68.1(2.3)	66.7(2.3)	73.6(1.9)	41.9(3.4)	45.3(5.7)
	1978	62.6(1.7)	65.1(2.1)	60.3(2.0)	68.9(1.6)	33.6(3.8)	41.6(5.3)
Apply place value	1994	50.1(1.8)	51.7(2.6)	48.6(2.0)	57.0(2.1)	30.0(3.3)	27.3(3.7)
	1992	49.9(1.5)	51.8(1.6)	47.9(1.8)	55.0(1.5)	32.7(3.1)	30.0(2.8)
	1990	47.9(1.8)	51.3(2.4)	44.6(1.9)	54.8(1.8)	25.7(4.0)	27.0(4.3)
	1986	43.1(2.2)	47.8(2.1)	38.1(3.0)	48.5(2.8)	26.9(3.0)	20.0(5.2)
	1982	56.4(1.6)	57.1(2.0)	55.7(2.0)	62.4(1.7)	31.6(2.5)	35.0(4.2)
	1978	51.5(2.0)	55.6(2.4)	47.8(2.5)	57.4(2.0)	24.2(2.5)	32.0(7.9)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 13

Weighted percentage correct by subgroups across assessment years

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Understand probability	1994	85.5(0.9)	87.2(1.1)	83.8(1.4)	88.8(0.9)	73.5(2.7)	83.1(2.7)
	1992	85.4(0.9)	85.3(1.1)	85.5(1.2)	89.4(1.0)	70.8(2.8)	80.7(2.6)
	1990	81.9(1.0)	83.2(1.5)	80.6(1.5)	86.1(0.9)	68.4(3.6)	78.1(3.1)
	1986	81.7(1.1)	81.3(1.4)	82.0(1.5)	85.3(1.2)	66.7(3.9)	72.8(3.9)
	1982	86.2(1.3)	87.4(1.6)	84.9(1.3)	90.0(1.0)	68.0(4.5)	76.7(6.6)
	1978	83.5(1.3)	83.3(1.6)	83.7(1.6)	87.1(1.3)	63.3(2.9)	80.3(3.2)
Read data from table	1994	96.0(0.6)	95.5(0.9)	96.5(0.8)	96.5(0.5)	94.1(1.9)	94.8(1.8)
	1992	95.4(0.4)	95.5(0.9)	95.2(0.8)	96.0(0.4)	92.7(1.7)	93.4(1.7)
	1990	95.3(0.5)	94.9(0.8)	95.9(0.5)	96.1(0.7)	94.2(1.6)	92.0(2.0)
	1986	94.9(0.5)	94.1(0.6)	95.8(0.7)	95.3(0.6)	92.5(1.1)	94.9(1.4)
	1982	92.6(0.5)	91.9(1.1)	93.2(0.8)	93.4(0.5)	85.1(2.1)	97.8(0.9)
	1978	91.8(0.8)	90.5(1.2)	93.1(1.0)	93.0(0.8)	85.8(3.1)	89.8(3.8)
Interpret data in table	1994	84.3(1.0)	84.9(1.0)	83.6(1.6)	87.1(0.8)	72.5(2.8)	74.4(2.6)
	1992	83.9(0.9)	83.8(1.3)	83.9(1.1)	87.6(0.9)	75.8(2.4)	69.1(3.8)
	1990	79.5(1.3)	79.1(1.8)	80.0(1.5)	84.3(1.2)	68.2(4.6)	61.1(4.4)
	1986	80.4(1.2)	80.9(1.9)	79.9(1.3)	84.7(1.0)	66.9(3.9)	60.7(3.5)
	1982	76.2(1.6)	74.7(2.5)	77.7(1.9)	79.9(1.5)	59.5(4.4)	65.7(4.7)
	1978	67.4(1.5)	66.4(1.7)	68.5(2.2)	72.6(1.3)	45.3(2.8)	48.5(8.7)
Compute using data in table	1994	92.7(0.9)	91.4(1.1)	94.1(1.1)	92.8(0.9)	90.9(2.7)	93.0(1.9)
	1992	92.2(0.5)	91.9(0.8)	92.5(0.7)	93.5(0.6)	89.2(1.7)	89.0(1.7)
	1990	92.3(0.7)	91.4(0.9)	93.2(1.1)	93.0(0.9)	91.0(1.6)	89.6(3.2)
	1986	91.3(0.6)	90.0(1.1)	92.5(1.3)	91.6(0.7)	88.8(2.1)	94.5(1.6)
	1982	92.4(0.9)	92.0(1.1)	92.7(0.9)	94.1(0.9)	83.1(1.9)	89.9(1.6)
	1978	87.0(1.0)	86.1(1.2)	87.9(1.3)	89.5(0.9)	74.5(2.9)	79.7(3.5)
Read data in bar graph	1994	91.3(0.8)	91.2(1.0)	91.5(1.0)	92.1(0.8)	86.7(2.0)	90.3(2.3)
	1992	90.3(0.9)	88.9(1.4)	91.7(0.9)	91.7(0.9)	82.9(2.4)	92.6(2.3)
	1990	89.9(0.7)	86.7(1.3)	93.0(0.8)	90.8(0.7)	87.9(2.8)	82.9(3.3)
	1986	89.6(0.7)	89.0(1.0)	90.2(1.4)	90.1(0.8)	87.7(1.6)	86.8(3.0)
	1982	88.0(0.6)	86.5(0.9)	89.4(1.0)	89.5(0.7)	81.8(2.0)	81.3(2.6)
	1978	85.5(0.9)	83.7(1.4)	87.4(1.3)	87.6(0.8)	74.5(1.9)	80.8(5.0)
Interpret data in bar graph	1994	76.1(1.5)	75.6(2.6)	76.4(1.6)	82.2(1.0)	59.1(5.4)	59.6(4.0)
	1992	75.4(1.0)	75.1(1.7)	75.8(1.6)	81.2(1.1)	54.8(2.9)	60.8(3.7)
	1990	70.9(1.3)	73.1(1.4)	68.8(2.0)	76.2(1.3)	52.7(4.2)	53.5(6.1)
	1986	69.2(1.7)	71.5(2.2)	67.0(1.9)	73.1(1.7)	54.1(4.2)	55.4(5.3)
	1982	62.4(1.7)	62.6(2.2)	62.1(2.7)	67.6(1.9)	38.6(2.8)	48.9(4.7)
	1978	53.5(1.8)	55.8(2.1)	51.1(1.9)	59.7(1.6)	29.1(1.8)	22.8(5.6)
Compute with data in bar graph	1994	92.0(1.0)	91.4(1.0)	92.5(1.4)	94.4(0.8)	86.5(3.8)	83.9(2.6)
	1992	90.9(0.8)	90.3(1.0)	91.4(1.0)	92.8(0.8)	83.0(2.8)	90.2(2.9)
	1990	90.9(0.8)	88.5(1.2)	93.2(0.8)	92.4(0.8)	87.0(2.4)	84.8(2.5)
	1986	88.8(0.8)	86.9(1.2)	90.7(1.1)	91.4(0.8)	82.4(2.7)	71.0(5.9)
	1982	85.7(1.0)	86.0(1.8)	85.3(1.4)	88.5(1.1)	71.4(3.9)	79.5(6.1)
	1978	80.5(1.2)	79.6(1.3)	81.3(1.6)	84.0(1.4)	63.7(4.4)	69.4(6.6)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Find perimeter of rectangle	1994	51.7(1.5)	54.2(1.8)	49.2(1.7)	56.3(1.8)	28.7(2.1)	43.4(4.0)
	1992	45.2(1.4)	46.8(1.8)	43.8(2.0)	49.7(1.7)	30.7(2.7)	33.6(3.7)
	1990	43.2(1.3)	45.2(1.7)	41.1(1.7)	46.5(1.5)	31.7(3.2)	32.0(2.4)
	1986	39.0(2.6)	42.3(3.1)	35.8(2.7)	43.2(3.2)	20.7(2.4)	29.6(5.1)
	1982	38.8(2.0)	41.0(3.0)	36.5(1.9)	42.1(2.4)	22.2(3.6)	26.5(4.6)
Find perimeter of rectangle	1994	60.3(1.8)	65.1(2.2)	55.7(2.9)	64.6(2.1)	44.6(4.2)	50.6(4.2)
	1992	61.4(1.3)	64.6(1.9)	57.9(1.8)	63.4(1.5)	51.6(2.7)	57.9(5.6)
	1990	54.4(1.8)	59.1(2.0)	50.0(2.3)	56.7(2.0)	41.5(4.0)	52.2(4.5)
	1986	52.6(2.7)	56.3(2.4)	49.0(3.5)	55.3(3.2)	41.6(3.1)	40.1(6.5)
	1982	50.5(1.7)	54.6(1.9)	46.1(2.4)	54.4(1.9)	32.4(4.0)	38.9(3.8)
Use ruler to measure length	1994	58.4(2.0)	66.7(2.4)	50.5(2.7)	66.6(1.9)	25.5(3.7)	48.2(2.7)
	1992	58.1(1.3)	62.1(1.6)	53.8(2.0)	67.1(1.4)	21.4(2.6)	45.3(4.6)
	1990	54.9(1.6)	61.9(1.6)	48.2(2.3)	62.5(1.5)	22.4(3.0)	39.6(4.0)
	1986	55.1(2.6)	60.5(2.6)	49.6(3.1)	60.7(2.6)	27.9(3.1)	45.8(6.5)
	1982	61.0(1.7)	66.9(2.1)	55.2(2.2)	66.6(1.8)	34.2(3.9)	46.0(7.4)
Apply triangle inequality	1994	73.1(1.0)	75.6(1.6)	70.6(1.2)	75.5(1.2)	63.1(4.0)	69.8(5.0)
	1992	72.1(1.0)	73.6(1.4)	70.7(1.6)	72.8(1.3)	70.8(2.6)	67.8(4.0)
	1990	71.5(1.1)	74.7(1.6)	68.2(1.5)	72.1(1.4)	69.6(3.0)	68.0(3.7)
	1986	69.1(1.7)	70.2(2.7)	68.0(3.6)	70.6(1.9)	61.1(3.5)	68.4(3.8)
	1982	71.7(1.5)	74.0(2.3)	69.4(2.3)	73.1(1.5)	63.3(3.8)	70.9(4.7)
	1978	64.3(1.2)	65.6(1.5)	63.1(1.8)	65.6(1.4)	58.5(3.9)	56.2(6.1)
Identify a sphere	1994	70.2(2.0)	73.2(2.3)	67.6(2.8)	74.7(1.8)	57.3(7.3)	54.3(5.1)
	1992	73.8(1.6)	77.5(1.7)	70.1(2.2)	77.8(1.6)	55.4(4.1)	67.6(5.3)
	1990	74.2(1.8)	75.9(2.2)	72.7(1.9)	78.6(1.9)	59.1(4.1)	61.8(4.1)
	1986	73.1(1.5)	74.1(1.8)	72.0(2.0)	76.1(1.6)	59.1(4.7)	65.3(4.7)
	1982	71.3(2.1)	70.9(2.1)	71.6(2.5)	76.1(2.1)	49.1(3.3)	55.8(3.7)
	1978	63.6(2.0)	62.1(2.1)	65.0(2.5)	69.0(2.0)	38.8(3.4)	44.5(6.9)
Identify parallel lines	1994	93.3(0.8)	93.1(1.2)	93.4(0.7)	94.9(0.7)	88.6(3.1)	87.9(1.9)
	1992	94.0(0.7)	93.7(1.0)	94.3(0.6)	95.6(0.6)	89.1(2.3)	88.8(2.6)
	1990	93.0(0.7)	92.8(0.7)	93.2(1.0)	94.9(0.7)	86.0(2.0)	90.1(1.8)
	1986	93.4(0.7)	92.0(0.9)	94.8(0.9)	95.1(0.6)	88.5(2.2)	85.8(4.7)
	1982	91.4(0.9)	90.7(1.5)	92.0(0.9)	94.1(1.1)	76.9(2.5)	87.9(1.2)
	1978	89.6(1.0)	91.1(1.1)	88.4(1.3)	92.6(1.0)	73.2(3.4)	84.3(2.6)
Identify perpendicular lines	1994	38.9(1.9)	41.5(2.4)	36.5(2.3)	42.5(2.6)	25.6(2.2)	29.6(4.9)
	1992	37.4(1.7)	35.9(2.1)	39.0(2.3)	39.9(1.9)	28.3(2.1)	30.2(4.1)
	1990	35.2(1.7)	34.6(1.7)	35.8(2.3)	38.7(2.0)	21.2(2.6)	25.9(5.5)
	1986	37.9(1.9)	36.3(1.6)	39.5(3.2)	40.2(2.1)	30.0(3.0)	27.1(4.2)
	1982	37.9(1.6)	37.1(2.0)	38.7(2.6)	40.9(1.9)	25.5(2.4)	20.2(4.6)
	1978	33.2(1.9)	32.6(2.1)	33.8(2.4)	35.8(2.2)	23.6(3.2)	18.3(4.0)
Add monomials	1994	31.5(2.0)	29.5(2.4)	33.2(2.0)	34.7(2.4)	20.2(3.8)	21.9(2.8)
	1992	29.3(2.2)	26.9(2.8)	31.8(2.2)	31.5(2.6)	17.9(4.4)	28.0(3.4)
	1990	27.5(1.9)	25.4(2.0)	29.6(2.1)	30.5(2.3)	16.4(2.4)	15.7(2.3)
	1986	24.7(3.5)	23.3(2.6)	26.0(4.6)	26.6(4.2)	16.8(2.4)	15.3(2.7)
	1982	27.4(1.3)	24.7(1.8)	30.2(2.4)	30.8(1.6)	10.9(1.6)	14.1(3.6)
	1978	25.1(1.4)	23.8(1.7)	26.5(1.7)	28.1(1.6)	12.2(2.4)	12.8(3.9)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Evaluate algebraic expression	1994	84.1(1.2)	84.0(1.5)	84.3(1.4)	88.0(1.1)	68.3(4.0)	75.9(4.7)
	1992	80.9(1.2)	80.0(1.4)	81.7(1.6)	83.9(1.2)	74.4(2.8)	66.9(2.9)
	1990	79.0(1.4)	79.1(1.9)	79.0(1.7)	83.4(1.2)	68.3(3.7)	62.7(4.9)
	1986	80.8(1.2)	79.5(1.5)	82.1(1.7)	83.8(1.3)	67.5(3.5)	75.5(3.1)
	1982	78.8(1.9)	76.7(2.6)	80.8(1.9)	83.4(2.2)	56.5(3.5)	66.6(2.7)
	1978	69.5(1.9)	64.9(2.1)	74.0(2.5)	74.7(1.6)	49.6(3.8)	42.6(5.6)
Apply transitive property	1994	52.3(1.7)	53.9(1.9)	50.8(2.7)	56.9(1.5)	38.5(8.4)	36.3(4.3)
	1992	51.5(1.8)	51.5(2.0)	51.4(2.1)	55.9(1.9)	32.9(3.7)	36.9(5.6)
	1990	49.1(1.5)	51.5(1.8)	46.9(2.0)	52.9(1.7)	34.8(3.1)	40.4(3.7)
	1986	43.3(1.3)	43.9(1.8)	42.7(1.7)	46.2(1.6)	29.1(2.5)	33.8(4.2)
	1982	54.6(1.7)	56.1(1.8)	53.0(2.1)	57.4(1.9)	41.4(3.1)	38.7(4.9)
	1978	57.3(1.4)	59.5(1.8)	54.8(1.9)	60.5(1.6)	41.4(3.6)	48.3(3.1)
Identify number line property	1994	51.3(1.8)	51.8(2.2)	50.8(2.9)	56.5(1.9)	35.5(7.2)	33.8(4.1)
	1992	50.6(1.5)	49.2(1.8)	51.9(2.1)	55.0(1.8)	31.7(3.2)	38.8(3.7)
	1990	46.3(1.7)	45.9(1.8)	46.6(2.5)	49.8(1.8)	30.6(4.0)	37.3(5.4)
	1986	45.8(1.3)	46.7(2.0)	44.9(2.0)	48.6(1.5)	34.6(1.9)	35.8(4.6)
	1982	47.6(1.8)	50.3(2.9)	45.1(2.0)	52.1(1.9)	27.8(3.0)	33.0(6.2)
	1978	52.3(1.6)	54.4(1.7)	50.5(2.2)	57.3(1.6)	28.6(3.5)	37.1(6.2)
Write improper fraction	1994	69.3(2.0)	65.7(2.8)	72.8(1.8)	75.0(1.7)	48.2(8.2)	55.3(4.7)
	1992	67.2(1.5)	63.5(1.9)	71.2(1.6)	70.8(1.4)	49.2(3.9)	67.1(4.2)
	1990	70.8(1.3)	66.4(1.8)	75.1(1.6)	75.0(1.3)	54.4(5.0)	56.7(3.9)
	1986	69.9(1.9)	66.8(2.1)	73.0(2.4)	73.2(2.2)	55.6(4.1)	55.8(8.8)
	1982	67.3(1.6)	65.0(1.5)	69.7(2.0)	71.3(1.6)	49.8(4.6)	50.7(5.3)
	1978	60.7(2.2)	57.2(2.5)	64.3(2.6)	67.3(2.2)	32.4(4.9)	30.2(1.7)
Find percent greater than 100	1994	50.3(1.6)	55.9(1.9)	44.8(2.2)	54.7(2.1)	38.7(3.1)	34.0(4.0)
	1992	52.0(1.5)	55.7(1.8)	48.1(2.1)	56.1(1.6)	38.1(3.8)	40.1(4.5)
	1990	48.4(1.1)	51.2(1.5)	45.6(1.5)	51.6(1.5)	37.6(2.1)	33.0(5.8)
	1986	48.6(1.8)	52.0(2.5)	45.1(2.3)	49.9(1.9)	42.5(3.2)	43.5(3.7)
	1982	51.7(1.7)	53.6(1.8)	49.8(2.6)	52.8(1.8)	48.5(3.1)	43.0(6.3)
	1978	49.2(1.3)	52.5(1.5)	45.8(2.0)	50.9(1.4)	40.4(3.7)	46.0(6.2)
Understand concept of percent	1994	50.0(1.6)	56.5(2.4)	43.3(2.1)	55.9(1.7)	26.5(3.7)	33.5(4.0)
	1992	45.1(1.4)	51.3(1.6)	39.4(2.1)	50.1(1.8)	31.1(3.1)	27.9(2.8)
	1990	42.4(1.9)	47.1(2.2)	37.4(2.2)	48.2(2.1)	26.8(3.7)	28.1(3.6)
	1986	41.4(1.6)	46.3(2.2)	36.5(2.4)	46.0(1.9)	22.9(2.0)	28.5(5.0)
	1982	52.8(2.1)	59.6(2.4)	46.2(2.7)	57.9(2.1)	31.7(2.8)	33.1(3.7)
	1978	47.6(1.5)	52.2(1.7)	42.7(1.9)	51.3(1.4)	31.1(2.6)	34.8(4.4)
Convert decimal to percent	1994	38.1(2.0)	37.5(2.1)	38.8(2.5)	41.4(2.2)	21.6(2.5)	28.5(4.6)
	1992	31.0(1.4)	29.9(1.6)	32.0(1.8)	32.7(1.5)	25.0(2.6)	19.5(3.4)
	1990	28.4(1.8)	30.0(2.0)	26.7(2.1)	30.3(2.2)	21.8(1.9)	23.5(3.1)
	1986	25.7(2.1)	26.0(1.9)	25.4(2.9)	26.6(2.4)	20.4(2.3)	25.2(6.1)
	1982	31.0(1.7)	32.3(2.0)	29.6(2.4)	31.9(2.1)	22.8(2.5)	37.4(4.5)
	1978	28.6(1.1)	28.6(1.8)	28.6(1.2)	30.2(1.3)	20.0(3.5)	21.6(4.4)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Solve percent problem	1994	48.1(2.2)	48.7(2.1)	47.6(3.3)	51.3(2.0)	39.4(9.4)	35.0(3.6)
	1992	48.1(1.9)	53.3(2.1)	42.9(2.5)	51.5(2.1)	32.6(3.8)	37.9(4.6)
	1990	41.6(1.7)	45.0(2.2)	38.4(2.1)	45.7(2.0)	26.4(3.3)	29.5(2.9)
	1986	38.7(1.6)	40.6(2.0)	36.9(2.4)	42.2(2.1)	22.2(1.5)	28.3(4.2)
	1982	44.7(1.8)	46.3(2.3)	43.0(2.5)	48.4(1.4)	31.9(4.8)	29.2(4.2)
	1978	38.9(1.6)	42.1(1.9)	35.7(2.1)	41.9(1.7)	22.9(2.8)	29.2(5.6)
Add integers	1994	61.8(2.1)	64.7(2.5)	58.8(2.1)	69.0(1.9)	43.2(5.6)	36.4(2.7)
	1992	58.4(1.6)	60.8(2.1)	55.9(1.7)	64.2(1.8)	37.1(3.6)	39.1(4.3)
	1990	54.4(1.8)	56.0(2.3)	52.9(2.1)	59.2(2.1)	33.0(3.3)	46.4(6.7)
	1986	51.3(1.8)	52.1(2.0)	50.5(2.8)	54.8(1.7)	34.9(3.9)	38.4(5.2)
	1982	45.4(2.4)	48.8(2.6)	41.9(2.7)	49.7(2.6)	22.4(3.0)	38.2(6.1)
	1978	44.0(2.0)	44.7(2.5)	43.3(2.4)	49.6(2.2)	18.4(3.1)	22.7(5.6)
Solve number sentence	1994	53.9(1.6)	57.1(2.5)	50.8(1.9)	59.0(1.6)	38.8(3.1)	35.9(3.5)
	1992	52.3(1.3)	53.3(1.9)	51.2(1.6)	55.9(1.6)	39.2(2.8)	43.6(3.8)
	1990	51.6(1.1)	52.6(1.5)	50.5(1.8)	55.2(1.3)	37.1(3.1)	45.2(4.9)
	1986	49.3(1.9)	49.4(2.1)	49.3(3.0)	51.9(2.1)	35.8(3.8)	45.8(4.7)
	1982	36.3(1.5)	38.7(1.8)	33.9(2.0)	37.7(1.7)	28.9(3.3)	31.3(5.5)
	1978	43.7(1.2)	45.6(1.9)	41.9(1.6)	47.7(1.1)	22.1(3.3)	34.9(4.6)
Estimate weight	1994	33.8(1.1)	35.6(1.7)	32.0(1.6)	34.1(1.3)	28.6(3.4)	35.9(4.7)
	1992	33.5(1.0)	33.2(1.3)	33.8(1.4)	34.6(1.3)	27.5(2.3)	30.5(2.7)
	1990	33.3(1.4)	35.0(1.9)	31.4(1.7)	34.3(1.6)	31.3(3.6)	26.4(4.0)
	1986	34.8(1.5)	36.6(2.1)	32.9(1.8)	36.8(1.9)	23.1(1.9)	36.4(3.8)
	1982	32.5(1.3)	32.6(1.8)	32.4(2.4)	34.7(1.5)	19.0(2.6)	35.1(4.9)
Estimate total weight	1994	40.7(1.6)	43.5(2.1)	37.9(1.9)	43.7(1.9)	25.6(3.4)	35.8(5.3)
	1992	40.1(1.0)	42.7(1.7)	37.8(1.1)	43.5(1.1)	28.1(2.5)	35.1(2.2)
	1990	38.5(1.2)	39.2(1.3)	37.8(1.5)	42.5(1.4)	27.6(2.8)	28.3(3.4)
	1986	37.1(1.8)	38.5(2.2)	35.7(2.6)	40.5(2.3)	26.1(2.6)	22.7(3.2)
	1982	35.1(1.7)	36.5(2.2)	33.6(2.2)	38.2(1.6)	18.5(2.7)	29.2(3.4)
Estimate cost of pencils	1994	76.3(1.1)	78.1(1.9)	74.3(1.2)	78.9(1.4)	64.1(3.2)	72.4(2.6)
	1992	77.9(1.0)	78.0(1.4)	77.8(1.4)	81.1(0.9)	67.0(2.5)	72.1(3.3)
	1990	75.9(1.4)	76.7(1.8)	75.2(1.7)	79.6(1.1)	61.9(6.2)	72.5(2.9)
	1986	74.9(1.3)	76.4(1.4)	73.5(1.7)	77.3(1.5)	63.7(2.9)	69.9(4.2)
	1982	58.8(2.1)	60.6(2.9)	56.8(2.3)	63.0(1.9)	38.1(5.1)	47.2(6.0)
Estimate cost using percent	1994	39.1(1.5)	41.7(1.8)	36.4(2.5)	40.5(1.7)	34.3(3.1)	33.5(3.1)
	1992	36.3(1.0)	41.1(1.6)	32.0(1.6)	36.7(1.2)	32.6(2.3)	41.2(4.2)
	1990	35.0(1.2)	37.5(1.8)	32.3(1.4)	37.8(1.2)	27.2(4.2)	25.6(3.7)
	1986	38.0(1.9)	38.6(2.4)	37.4(2.2)	40.2(2.2)	32.1(3.0)	28.3(3.1)
	1982	38.2(1.2)	40.6(2.3)	35.6(1.5)	41.0(1.3)	27.0(5.0)	29.6(5.9)
Estimate difference in length	1994	63.7(1.4)	66.2(2.1)	61.2(1.8)	66.7(1.4)	52.0(3.8)	55.2(5.0)
	1992	62.3(1.3)	62.4(1.5)	62.1(1.9)	66.4(1.5)	48.5(2.9)	53.6(3.5)
	1990	61.6(2.0)	62.6(2.2)	60.6(2.7)	65.8(1.9)	47.3(4.5)	51.7(5.3)
	1986	58.8(1.9)	59.4(2.2)	58.3(2.6)	63.1(2.0)	39.6(3.2)	52.3(4.2)
	1982	56.4(1.7)	56.8(2.0)	55.9(2.3)	60.1(2.0)	37.2(2.6)	47.9(6.1)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Use property of transitivity	1994	83.6(0.9)	81.7(1.5)	85.4(1.5)	84.3(1.0)	82.0(1.9)	79.7(3.9)
	1992	82.8(1.0)	82.0(1.2)	83.6(1.4)	84.8(1.0)	77.7(2.4)	77.4(2.8)
	1990	84.1(1.2)	83.5(1.5)	84.7(1.5)	86.5(1.0)	75.6(4.5)	80.3(2.8)
	1986	85.9(0.8)	84.8(1.3)	86.9(1.1)	87.2(1.2)	79.6(1.9)	83.2(3.3)
	1982	84.8(1.4)	80.9(2.1)	88.6(1.6)	86.4(1.5)	78.2(4.1)	76.5(4.2)
	1978	83.1(1.1)	81.1(1.5)	84.9(1.2)	85.1(1.1)	74.5(3.0)	75.2(4.7)
Determine age relationship	1994	74.2(1.5)	75.1(1.8)	73.4(1.9)	80.4(1.3)	50.2(3.5)	64.0(3.2)
	1992	73.2(1.0)	73.9(1.2)	72.5(1.6)	77.9(1.1)	53.8(2.4)	65.3(3.3)
	1990	74.9(1.0)	76.3(1.2)	73.6(1.7)	78.3(1.3)	64.8(3.1)	62.2(4.0)
	1986	72.1(1.3)	71.4(1.7)	72.8(1.7)	74.7(1.2)	60.5(4.3)	64.1(3.8)
	1982	75.3(1.5)	77.1(1.5)	73.6(2.3)	79.6(1.6)	54.8(4.2)	63.8(4.4)
	1978	73.5(1.1)	73.0(1.4)	74.1(1.4)	77.3(0.9)	56.7(5.3)	61.7(4.0)
Identify valid conclusion	1994	79.5(1.4)	77.4(2.1)	81.6(1.4)	83.2(1.3)	69.5(4.8)	72.2(2.3)
	1992	78.4(1.2)	76.0(1.6)	81.0(1.5)	81.5(1.2)	67.7(3.4)	71.3(4.6)
	1990	77.7(1.0)	76.4(1.5)	79.1(1.5)	79.8(1.3)	73.0(3.4)	67.6(2.2)
	1986	75.3(1.4)	73.8(2.2)	76.8(1.5)	76.3(1.6)	72.8(3.5)	65.3(3.2)
	1982	67.6(1.4)	66.0(1.9)	69.2(1.8)	69.4(1.8)	61.9(3.5)	58.0(3.7)
	1978	64.6(1.3)	62.2(1.8)	67.2(1.7)	66.1(1.3)	60.6(3.9)	54.3(3.9)
Identify valid conclusion	1994	28.4(1.3)	31.1(1.8)	25.8(1.8)	28.4(1.3)	28.9(2.2)	24.6(3.6)
	1992	29.5(1.2)	31.5(1.8)	27.2(1.8)	29.8(1.3)	28.4(3.8)	27.0(5.2)
	1990	28.0(1.3)	30.2(1.6)	25.9(1.6)	28.3(1.3)	25.5(3.7)	28.4(4.6)
	1986	29.8(1.3)	30.8(2.0)	28.9(2.2)	30.3(1.5)	26.0(3.1)	33.3(2.8)
	1982	44.9(1.6)	47.9(2.0)	42.0(2.4)	46.7(1.7)	36.0(2.5)	44.6(3.0)
	1978	50.1(1.6)	53.0(2.0)	46.9(2.2)	53.1(1.6)	39.1(4.0)	32.0(6.9)
Interpret data in table	1994	61.9(1.9)	64.8(2.3)	59.1(2.2)	68.1(1.3)	38.2(6.6)	51.3(4.3)
	1992	62.4(1.3)	65.7(1.6)	58.9(2.0)	68.0(1.3)	39.7(3.9)	55.1(3.8)
	1990	61.3(1.3)	64.1(1.5)	58.6(1.9)	66.8(1.5)	39.8(3.8)	50.6(4.3)
	1986	60.8(1.9)	63.4(2.2)	58.2(2.3)	64.5(2.2)	42.5(4.0)	61.2(3.2)
	1982	50.2(2.0)	55.1(2.6)	45.3(2.0)	53.5(2.4)	32.3(4.8)	46.1(4.0)
	1978	56.8(1.6)	63.2(1.7)	50.3(2.3)	60.8(1.7)	34.7(2.8)	52.1(3.9)
Read circle graph	1994	95.5(0.5)	94.7(0.9)	96.3(0.7)	97.0(0.5)	92.9(1.4)	90.9(2.2)
	1992	94.4(0.6)	94.7(1.2)	94.2(0.8)	96.1(0.6)	89.5(1.8)	90.1(2.0)
	1990	92.5(1.0)	91.3(1.5)	93.8(0.9)	96.1(0.6)	80.5(4.3)	85.7(2.6)
	1986	94.8(0.7)	95.1(0.9)	94.5(0.8)	96.4(0.6)	90.0(1.9)	89.1(5.0)
	1982	94.8(0.8)	94.0(0.8)	95.5(1.0)	95.9(0.9)	90.4(1.6)	87.4(2.7)
	1978	93.3(0.8)	91.2(1.2)	95.5(0.8)	95.4(0.7)	83.5(2.4)	87.7(3.0)
Interpret data in circle graph	1994	89.9(0.9)	87.6(1.1)	92.2(1.2)	92.0(0.9)	83.6(2.2)	86.2(2.3)
	1992	88.9(0.9)	86.3(1.5)	91.3(1.0)	90.6(0.9)	84.1(3.1)	82.9(2.8)
	1990	86.9(1.2)	85.9(1.7)	88.0(1.2)	89.9(1.2)	77.4(3.9)	82.7(2.4)
	1986	86.2(1.0)	86.2(1.8)	86.1(1.3)	88.5(1.1)	78.2(2.4)	75.7(5.4)
	1982	93.7(0.8)	90.9(1.1)	96.5(0.7)	95.2(0.7)	86.7(2.4)	89.7(2.5)
	1978	90.8(0.8)	89.9(1.2)	91.7(0.9)	93.5(0.7)	78.6(2.7)	80.8(3.2)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Find average	1994	58.3(2.0)	59.9(3.0)	56.6(1.9)	61.9(2.2)	42.4(4.5)	51.6(3.4)
	1992	57.5(1.7)	56.9(1.9)	58.0(2.4)	63.1(1.9)	37.6(3.1)	43.7(3.4)
	1990	50.5(2.4)	50.8(2.8)	50.1(2.7)	55.1(2.6)	35.5(5.9)	42.0(5.3)
	1986	48.6(2.0)	49.1(2.6)	48.2(2.5)	53.4(2.5)	31.2(3.7)	31.0(4.0)
	1982	52.7(2.2)	52.3(2.7)	53.1(2.4)	56.6(2.0)	36.6(4.0)	33.6(4.3)
	1978	50.6(1.9)	50.6(2.3)	50.6(2.2)	56.4(2.0)	25.0(4.3)	22.5(4.9)
Solve money problem	1994	59.3(1.8)	57.6(2.3)	60.9(2.1)	64.6(1.9)	41.0(6.8)	46.6(4.1)
	1992	56.7(2.1)	53.3(2.2)	60.1(2.6)	62.9(2.4)	26.7(3.5)	50.2(4.0)
	1990	51.5(1.7)	47.1(2.1)	55.7(1.9)	55.4(1.8)	39.4(3.6)	36.4(4.0)
	1986	43.7(1.7)	40.3(2.2)	47.0(2.2)	48.0(2.0)	24.0(2.3)	28.8(4.4)
	1982	46.8(2.0)	44.4(2.4)	49.3(2.5)	51.8(1.8)	24.7(4.5)	31.6(2.0)
	1978	43.5(2.2)	42.8(2.4)	44.1(2.6)	48.6(2.3)	20.5(2.5)	24.8(4.3)
Identify algebraic identity	1994	49.0(1.4)	46.0(1.9)	52.1(2.0)	51.8(1.7)	33.7(2.9)	44.3(8.5)
	1992	47.2(1.7)	42.3(1.9)	51.8(2.2)	51.7(1.7)	35.0(3.0)	32.7(4.3)
	1990	41.6(2.2)	39.3(2.7)	44.0(2.3)	46.3(2.5)	27.2(4.9)	26.8(4.4)
	1986	37.6(2.8)	36.4(2.8)	38.8(3.3)	41.2(3.2)	22.8(2.6)	25.9(3.9)
	1982	41.5(1.7)	38.2(2.4)	44.8(2.2)	44.8(2.0)	27.7(3.5)	23.7(3.4)
	1978	35.7(1.8)	32.3(2.2)	39.3(1.9)	39.8(1.9)	19.8(1.9)	16.5(4.9)
Identify unit of length	1994	92.9(0.6)	93.1(1.2)	92.7(0.9)	93.9(0.8)	88.8(1.5)	91.8(2.2)
	1992	95.1(0.7)	94.8(1.1)	95.3(0.7)	96.2(0.6)	91.1(2.4)	92.8(1.8)
	1990	94.0(0.6)	93.7(0.8)	94.2(0.9)	94.9(0.6)	89.6(2.4)	93.5(2.4)
	1986	91.9(1.1)	92.5(1.3)	91.4(1.1)	93.5(1.3)	86.4(2.3)	84.5(4.2)
	1982	87.5(1.5)	87.7(1.6)	87.4(1.8)	89.9(1.4)	74.5(3.1)	84.9(2.8)
	1978	87.5(1.5)	87.7(1.6)	87.4(1.8)	89.9(1.4)	74.5(3.1)	84.9(2.8)
Identify unit of weight	1994	72.8(1.3)	78.2(1.6)	67.5(2.0)	77.5(1.7)	54.3(2.5)	66.2(4.1)
	1992	71.9(2.0)	73.2(2.6)	70.5(1.8)	75.4(1.9)	59.4(5.0)	61.6(5.2)
	1990	68.9(1.6)	72.3(1.7)	65.7(2.3)	72.0(2.0)	55.8(2.9)	64.8(3.9)
	1986	66.8(1.7)	70.9(1.8)	62.7(2.4)	69.5(1.9)	58.4(4.8)	51.5(4.6)
	1982	70.7(1.6)	73.7(1.8)	67.5(2.5)	75.2(1.9)	46.5(2.6)	64.4(3.0)
	1978	70.7(1.6)	73.7(1.8)	67.5(2.5)	75.2(1.9)	46.5(2.6)	64.4(3.0)
Convert metric units	1994	44.1(1.9)	45.3(2.4)	42.9(2.1)	47.1(2.2)	33.6(4.6)	34.0(2.4)
	1992	44.0(2.0)	46.4(2.5)	41.4(2.1)	47.2(2.3)	33.1(3.1)	27.7(4.0)
	1990	45.2(1.5)	46.0(1.8)	44.5(1.9)	49.2(1.8)	32.1(2.5)	32.6(4.1)
	1986	46.3(4.0)	46.7(4.3)	45.9(4.1)	48.5(5.0)	35.3(3.3)	41.3(4.1)
	1982	49.5(1.4)	52.4(2.1)	46.7(1.3)	49.5(1.7)	50.4(6.6)	47.0(6.7)
	1978	49.5(1.4)	52.4(2.1)	46.7(1.3)	49.5(1.7)	50.4(6.6)	47.0(6.7)
Convert metric units	1994	43.1(2.1)	44.5(2.5)	41.9(3.3)	44.5(2.1)	44.3(7.3)	30.3(4.2)
	1992	44.8(1.5)	46.1(1.8)	43.6(2.2)	46.0(1.8)	40.3(3.5)	38.0(6.3)
	1990	48.8(1.9)	48.5(2.2)	49.1(2.3)	50.7(2.1)	43.7(3.3)	39.2(4.5)
	1986	50.1(2.0)	50.4(2.3)	49.7(2.7)	51.6(2.4)	45.2(3.2)	41.6(5.2)
	1982	37.9(2.3)	39.6(3.2)	36.3(2.2)	38.8(2.3)	36.5(6.0)	27.0(5.7)
	1978	37.9(2.3)	39.6(3.2)	36.3(2.2)	38.8(2.3)	36.5(6.0)	27.0(5.7)
Identify greatest metric unit	1994	76.5(1.5)	78.9(1.8)	74.4(2.2)	80.1(1.4)	66.1(4.0)	61.9(6.4)
	1992	79.4(1.5)	82.8(1.6)	76.0(1.9)	81.7(1.6)	66.8(3.7)	78.3(3.4)
	1990	74.9(1.7)	77.9(2.0)	72.1(1.9)	78.6(1.9)	59.8(3.8)	66.5(5.7)
	1986	71.7(1.6)	77.0(1.9)	66.4(2.2)	75.1(2.1)	60.9(3.9)	52.1(5.4)
	1982	73.7(1.9)	76.8(2.4)	70.6(2.1)	78.2(2.1)	50.6(4.3)	70.6(4.7)
	1978	63.5(1.5)	71.0(2.1)	55.2(1.8)	67.3(1.5)	46.4(3.3)	51.1(4.7)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Estimate height of door	1994	81.0(0.9)	86.8(1.2)	75.5(1.9)	87.4(1.0)	58.9(2.8)	67.1(4.2)
	1992	81.9(0.9)	88.0(1.3)	75.4(1.5)	86.4(0.9)	65.1(3.1)	73.6(3.3)
	1990	81.0(1.1)	88.0(1.3)	74.4(1.5)	86.5(1.1)	62.4(3.9)	64.7(4.5)
	1986	81.3(1.8)	88.0(1.4)	74.6(2.5)	85.6(2.2)	62.5(2.7)	75.4(2.4)
	1982	76.9(1.5)	82.3(1.9)	71.7(1.9)	80.2(1.7)	64.5(2.9)	61.5(5.5)
	1978	78.8(1.3)	83.2(1.3)	74.5(1.9)	83.8(1.0)	53.2(4.5)	69.4(2.9)
Read length using ruler	1994	84.2(1.2)	86.2(1.8)	82.4(1.4)	88.0(1.0)	70.4(4.0)	76.0(1.7)
	1992	84.4(1.0)	85.6(1.1)	83.0(1.6)	88.4(1.1)	69.5(2.8)	74.9(3.4)
	1990	82.9(0.9)	83.7(1.1)	82.1(1.3)	86.5(0.8)	70.4(4.4)	72.6(3.0)
	1986	81.0(1.1)	81.4(1.3)	80.5(1.5)	83.4(1.2)	67.9(3.0)	79.0(3.2)
	1982	83.8(1.4)	87.4(1.9)	80.1(2.0)	87.1(1.2)	69.5(4.5)	72.0(2.6)
	Find area of rectangle	1994	59.7(1.7)	59.5(2.3)	59.8(1.8)	66.5(1.7)	36.0(3.0)
1992		55.9(1.7)	54.0(2.4)	57.9(1.9)	59.5(2.0)	41.3(3.4)	46.9(4.8)
1990		53.6(1.9)	52.3(2.3)	54.8(2.2)	56.3(2.1)	46.0(3.1)	39.1(5.0)
1986		51.6(1.9)	50.2(2.5)	53.0(1.9)	53.9(2.2)	44.2(3.7)	34.8(6.1)
1982		48.4(2.2)	47.2(2.8)	49.5(2.5)	53.1(2.6)	24.4(3.7)	39.9(5.7)
1978		51.4(2.0)	49.6(2.3)	53.1(2.1)	55.2(2.2)	32.4(3.8)	37.3(4.5)
Find area of rectangle	1994	67.8(1.4)	66.3(1.8)	69.4(1.7)	71.1(1.5)	53.1(3.4)	60.5(3.4)
	1992	67.7(1.4)	65.3(1.7)	70.0(1.9)	72.5(1.6)	54.2(3.4)	48.3(3.4)
	1990	62.0(2.3)	60.5(2.8)	63.7(2.4)	66.5(2.5)	47.9(4.1)	54.7(3.9)
	1986	63.4(1.7)	64.5(1.8)	62.4(2.6)	65.6(2.1)	52.6(3.3)	58.1(4.1)
	1982	64.0(2.2)	66.3(2.1)	61.8(2.9)	68.0(2.5)	45.1(3.4)	50.2(4.3)
	1978	70.5(1.6)	70.6(1.6)	70.4(2.2)	73.7(1.5)	52.8(4.1)	62.2(5.2)
Find area of square	1994	13.1(1.1)	14.8(1.5)	11.4(1.2)	14.0(1.2)	3.8(1.4)	11.0(4.6)
	1992	12.0(0.9)	12.6(1.1)	11.5(1.2)	12.7(1.2)	8.6(2.8)	8.6(2.0)
	1990	12.5(1.4)	13.0(1.6)	12.1(1.6)	13.9(1.8)	5.9(2.7)	8.4(1.6)
	1986	13.0(1.5)	15.8(1.6)	10.2(1.6)	14.4(1.7)	5.3(1.6)	7.4(2.4)
	1982	17.7(1.9)	20.2(2.2)	15.3(2.3)	20.5(2.1)	4.3(1.3)	3.4(2.6)
	1978	12.1(1.4)	12.8(1.6)	11.4(1.5)	14.4(1.6)	3.1(1.2)	1.4(0.9)
Identify parallelograms	1994	69.6(1.6)	69.0(2.2)	70.1(1.7)	73.8(1.8)	56.0(3.6)	61.2(3.6)
	1992	70.8(1.2)	68.0(1.8)	73.5(1.4)	75.4(1.2)	52.9(3.0)	56.9(3.4)
	1990	67.2(1.3)	66.4(1.9)	67.9(1.9)	69.3(1.6)	58.1(3.7)	61.9(4.2)
	1986	67.5(2.1)	69.3(2.3)	65.8(2.2)	70.5(2.8)	51.3(2.8)	62.0(4.5)
	1982	72.3(2.0)	71.8(2.3)	72.9(2.6)	75.6(2.0)	59.5(4.2)	59.4(9.0)
	1978	66.4(1.4)	65.5(1.6)	67.3(1.9)	68.2(1.5)	56.9(3.8)	58.3(5.2)
Apply vertical angles	1994	82.7(1.1)	81.7(1.3)	83.7(1.5)	84.9(1.1)	70.7(3.2)	79.3(3.3)
	1992	81.1(1.0)	82.2(1.3)	80.1(1.6)	82.7(1.2)	73.6(2.6)	80.5(3.4)
	1990	81.1(1.5)	81.3(1.7)	80.9(2.0)	84.4(1.3)	71.3(4.5)	72.3(2.8)
	1986	80.4(1.8)	78.2(2.6)	82.7(1.8)	81.6(2.1)	76.6(2.3)	76.2(2.9)
	1982	75.0(1.3)	74.6(1.7)	75.4(1.6)	77.5(1.5)	63.4(2.6)	71.2(3.0)
	1978	72.1(1.3)	71.4(1.8)	73.0(1.6)	74.0(1.4)	60.7(4.9)	69.7(4.7)
Apply supplementary angles	1994	13.9(1.2)	14.9(1.6)	12.9(1.2)	15.5(1.4)	5.6(1.0)	6.5(2.1)
	1992	10.7(1.0)	12.7(1.4)	8.9(0.9)	11.8(1.4)	6.8(1.5)	4.2(1.3)
	1990	10.6(1.2)	12.8(1.7)	8.4(1.1)	12.1(1.6)	6.7(1.3)	2.3(0.6)
	1986	8.9(1.1)	10.9(1.4)	6.9(1.3)	9.7(1.2)	4.3(1.9)	6.8(2.5)
	1982	12.8(1.6)	16.2(1.8)	9.4(1.6)	13.1(1.7)	12.6(4.0)	9.0(3.2)
	1978	10.3(1.2)	11.7(1.2)	8.9(1.4)	12.1(1.4)	1.4(0.8)	3.5(1.2)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Identify greatest number	1994	62.3(1.9)	68.2(2.4)	56.4(2.1)	70.4(1.3)	35.4(4.9)	41.9(4.5)
	1992	58.4(1.8)	62.3(2.3)	54.2(2.3)	64.6(1.7)	32.7(4.2)	47.9(4.6)
	1990	58.0(1.8)	59.9(2.3)	56.2(1.9)	63.3(2.1)	36.0(5.8)	45.2(3.7)
	1986	53.4(1.5)	56.2(1.7)	50.6(2.0)	58.9(1.6)	31.2(2.5)	34.4(5.5)
	1982	54.7(1.8)	56.0(2.5)	53.3(2.2)	58.5(1.5)	37.3(6.2)	38.9(5.8)
Change decimal to percent	1994	67.5(1.5)	67.1(1.8)	67.8(1.8)	70.8(1.5)	56.9(3.9)	56.8(3.8)
	1992	63.1(1.4)	63.3(2.2)	63.0(1.9)	65.8(1.6)	50.5(2.9)	62.8(5.1)
	1990	63.3(1.5)	62.4(1.7)	64.2(1.7)	65.4(1.6)	48.5(3.3)	68.8(3.9)
	1986	65.2(1.8)	64.5(2.1)	65.9(2.3)	66.7(1.9)	55.1(3.6)	68.6(3.4)
	1982	68.4(1.4)	65.1(1.8)	71.7(1.7)	69.4(1.5)	61.3(4.5)	68.2(5.1)
Write addition sentence	1994	30.7(1.4)	33.3(1.4)	28.4(2.2)	34.8(1.6)	20.5(2.4)	14.2(2.9)
	1992	29.3(1.3)	28.9(1.5)	29.7(1.7)	32.4(1.6)	18.5(2.4)	18.6(3.3)
	1990	28.9(1.4)	29.6(1.6)	28.2(1.6)	31.3(1.6)	18.5(2.8)	22.1(3.4)
	1986	31.8(1.7)	30.2(1.9)	33.4(1.9)	34.1(1.8)	19.6(3.9)	27.3(4.5)
	1982	46.5(2.5)	46.3(2.9)	46.6(2.9)	49.8(2.5)	30.1(6.8)	31.6(7.1)
	1978	48.2(1.5)	46.4(1.8)	50.2(2.3)	53.4(1.5)	25.4(6.0)	26.5(4.0)
Find common factor	1994	83.0(0.9)	82.0(1.5)	83.9(1.1)	84.4(0.9)	80.6(2.8)	73.8(2.9)
	1992	84.4(1.1)	84.2(1.8)	84.5(1.6)	86.4(1.2)	75.0(2.8)	85.8(2.4)
	1990	83.8(1.3)	81.1(1.7)	86.4(1.6)	86.5(1.2)	77.9(4.0)	71.6(5.4)
	1986	84.3(1.1)	84.1(1.3)	84.6(1.5)	85.4(1.2)	82.8(2.0)	77.2(3.0)
	1982	79.5(1.3)	78.3(1.6)	80.6(1.5)	81.1(1.4)	75.5(2.8)	68.1(4.2)
	1978	72.5(1.4)	72.9(1.7)	72.2(1.8)	75.3(1.5)	61.4(2.7)	62.9(4.6)
Add whole numbers	1994	96.7(0.5)	96.3(0.8)	97.1(0.5)	97.0(0.6)	96.1(1.0)	93.8(1.6)
	1992	97.1(0.4)	97.6(0.5)	96.7(0.6)	97.3(0.4)	96.1(1.2)	96.7(1.2)
	1990	97.1(0.3)	97.1(0.6)	97.1(0.4)	97.2(0.3)	97.1(1.4)	96.3(1.2)
	1986	96.2(0.5)	96.1(0.5)	96.3(0.7)	96.6(0.6)	94.0(1.8)	96.2(0.8)
	1982	96.3(0.5)	95.9(0.7)	96.6(0.5)	96.2(0.6)	95.9(1.0)	97.1(1.4)
Add whole numbers	1994	96.0(0.6)	94.5(1.1)	97.7(0.5)	96.2(0.6)	94.9(1.6)	95.4(2.1)
	1992	95.5(0.5)	95.3(0.8)	95.8(0.5)	95.9(0.6)	93.7(1.3)	94.7(2.1)
	1990	96.6(0.4)	96.1(0.8)	97.0(0.5)	96.8(0.3)	96.0(1.7)	94.4(1.8)
	1986	95.3(0.6)	94.5(0.8)	96.1(0.9)	95.4(0.7)	94.4(1.2)	96.3(1.4)
	1982	96.4(0.5)	95.2(0.8)	97.7(0.4)	97.7(0.4)	89.7(1.3)	94.2(1.8)
Add whole numbers	1994	78.1(0.8)	77.2(1.3)	78.9(1.4)	80.4(1.1)	67.2(2.3)	72.4(3.1)
	1992	79.3(1.0)	78.9(1.4)	79.8(1.2)	80.5(1.2)	74.6(2.9)	77.3(2.7)
	1990	81.6(0.8)	79.1(1.4)	84.0(1.1)	82.4(0.9)	77.1(2.9)	79.1(3.6)
	1986	81.3(1.6)	80.1(2.0)	82.5(1.8)	82.0(1.7)	77.6(3.3)	78.4(4.1)
	1982	85.7(1.0)	83.7(1.3)	87.8(1.3)	87.1(1.1)	78.2(2.2)	82.6(2.5)
Add whole numbers	1994	97.3(0.4)	96.5(0.8)	98.1(0.5)	97.3(0.4)	97.4(1.1)	97.4(1.0)
	1992	98.1(0.4)	97.5(0.5)	98.7(0.4)	98.1(0.5)	98.9(0.5)	97.9(1.0)
	1990	98.1(0.2)	97.8(0.4)	98.3(0.4)	98.0(0.3)	98.2(0.8)	98.4(0.8)
	1986	97.8(0.4)	97.5(0.5)	98.0(0.6)	97.7(0.5)	98.1(0.6)	97.2(1.2)
	1982	97.1(0.5)	96.7(0.8)	97.5(0.7)	97.6(0.4)	94.1(1.7)	96.7(2.4)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Add whole numbers	1994	97.0(0.5)	96.7(0.6)	97.3(0.7)	97.2(0.5)	96.6(1.2)	96.0(1.6)
	1992	97.7(0.4)	97.1(0.7)	98.3(0.5)	97.8(0.5)	96.7(1.3)	100.0(0.0)
	1990	98.0(0.4)	97.5(0.6)	98.4(0.4)	98.3(0.4)	97.2(1.0)	96.2(1.4)
	1986	97.6(0.3)	96.9(0.8)	98.2(0.6)	97.6(0.4)	97.6(0.8)	95.9(1.6)
	1982	97.9(0.4)	97.7(0.6)	98.1(0.5)	98.2(0.3)	96.1(1.5)	97.5(1.4)
Add whole numbers	1994	90.7(0.8)	89.3(1.1)	91.9(1.1)	92.0(0.8)	85.6(2.0)	89.2(2.3)
	1992	91.9(0.7)	89.9(1.2)	94.0(0.8)	92.3(0.8)	89.4(2.3)	93.3(2.6)
	1990	92.5(0.7)	90.1(1.0)	94.8(0.8)	93.5(0.6)	89.5(2.2)	87.1(3.5)
	1986	89.6(1.0)	87.2(1.9)	92.0(0.8)	91.1(1.2)	82.3(1.2)	87.0(3.3)
	1982	87.9(1.6)	83.9(2.4)	92.1(1.3)	91.1(1.0)	70.9(6.0)	87.5(3.0)
Apply operation of addition	1994	96.0(0.6)	95.6(0.8)	96.3(0.7)	96.2(0.7)	94.5(1.3)	95.0(1.7)
	1992	95.4(0.6)	95.5(0.7)	95.3(0.9)	97.3(0.5)	89.5(2.3)	92.1(2.1)
	1990	96.0(0.4)	95.2(0.7)	96.7(0.5)	96.3(0.4)	95.5(1.3)	94.1(1.4)
	1986	96.5(0.5)	95.9(0.7)	97.1(0.7)	96.8(0.7)	96.2(0.9)	93.4(1.7)
	1982	97.6(0.3)	97.8(0.4)	97.5(0.6)	97.9(0.4)	97.0(1.2)	96.7(1.4)
Subtract whole numbers	1994	92.8(0.8)	91.6(0.9)	93.9(1.1)	94.1(0.7)	88.5(3.0)	88.5(3.5)
	1992	94.3(0.7)	93.9(1.1)	94.8(0.7)	95.2(0.7)	88.9(2.1)	96.9(1.4)
	1990	94.9(0.5)	93.1(1.0)	96.7(0.6)	95.3(0.5)	93.7(1.8)	90.9(2.1)
	1986	94.7(0.5)	93.5(1.0)	95.9(0.4)	95.2(0.7)	93.5(1.9)	91.0(2.5)
	1982	95.4(0.5)	94.6(0.9)	96.1(0.7)	96.8(0.5)	87.0(2.3)	95.3(1.2)
	1978	92.1(0.7)	91.5(0.9)	92.6(1.0)	94.2(0.7)	79.9(1.8)	92.0(1.8)
Subtract whole numbers	1994	80.8(1.0)	79.8(1.8)	81.7(1.6)	85.0(0.9)	64.7(3.0)	75.7(4.3)
	1992	82.5(1.1)	81.0(1.6)	84.1(1.0)	85.4(0.8)	69.3(4.0)	81.5(3.0)
	1990	81.7(1.1)	80.0(1.6)	83.4(1.5)	84.5(1.3)	68.7(2.9)	79.5(3.8)
	1986	82.8(1.1)	80.8(1.2)	84.7(1.9)	84.0(1.1)	75.9(3.4)	79.5(3.9)
	1982	86.3(1.2)	85.1(1.6)	87.4(2.0)	89.5(1.3)	70.8(3.2)	77.8(3.6)
	1978	80.6(1.2)	80.4(1.4)	80.8(1.6)	83.8(1.3)	63.0(3.5)	77.3(2.7)
Subtract whole numbers	1994	85.8(1.0)	84.4(1.4)	87.1(1.3)	87.8(0.9)	75.7(4.3)	84.8(4.5)
	1992	87.3(0.8)	86.6(1.1)	87.9(1.3)	89.6(0.8)	76.1(2.5)	86.1(2.6)
	1990	88.2(0.9)	87.1(1.3)	89.3(1.4)	89.7(0.9)	81.3(3.3)	85.2(2.3)
	1986	87.8(1.6)	86.1(1.7)	89.5(2.1)	89.7(1.7)	79.2(2.6)	83.7(2.2)
	1982	88.0(1.1)	85.9(1.5)	90.1(1.3)	90.3(1.2)	74.0(3.2)	91.1(2.2)
	1978	84.7(0.9)	83.7(1.2)	85.7(1.6)	87.6(0.9)	70.9(2.9)	76.6(3.3)
Subtract whole numbers	1994	95.6(0.5)	95.3(0.7)	95.9(0.7)	96.5(0.5)	92.5(1.9)	93.5(1.9)
	1992	95.4(0.6)	95.3(0.7)	95.4(1.0)	96.3(0.6)	91.2(1.7)	94.7(1.7)
	1990	95.1(0.6)	94.7(0.7)	95.6(0.8)	96.3(0.5)	92.3(2.5)	90.5(1.4)
	1986	95.4(0.6)	95.5(0.6)	95.3(1.1)	96.0(0.7)	91.7(1.4)	96.2(1.4)
	1982	96.2(0.7)	95.3(0.9)	97.0(0.7)	96.9(0.7)	92.3(1.5)	94.9(2.3)
	1978	95.8(0.6)	94.8(0.9)	96.8(0.6)	96.9(0.7)	89.4(1.3)	95.8(1.6)
Subtract whole numbers	1994	96.2(0.5)	95.3(0.7)	97.0(0.7)	96.6(0.5)	95.0(1.7)	93.3(1.7)
	1992	95.5(0.5)	94.5(1.1)	96.4(0.8)	96.2(0.6)	92.7(1.6)	95.1(1.8)
	1990	95.7(0.6)	94.8(0.7)	96.7(0.8)	96.2(0.5)	95.3(1.5)	91.2(1.7)
	1986	96.8(0.6)	96.5(0.7)	97.0(0.7)	97.4(0.6)	93.3(1.3)	96.0(1.9)
	1982	96.1(0.6)	94.5(0.9)	97.8(0.7)	96.2(0.7)	94.7(1.3)	97.3(2.0)
	1978	94.9(0.4)	93.3(0.8)	96.6(0.6)	95.8(0.5)	89.5(1.7)	94.3(1.7)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Subtract whole numbers	1994	92.3(0.8)	91.9(1.0)	92.7(1.0)	93.3(0.7)	87.9(2.7)	91.0(2.8)
	1992	92.3(1.0)	91.3(1.1)	93.2(1.1)	93.8(1.0)	86.3(2.8)	91.7(1.6)
	1990	91.9(0.9)	91.2(1.3)	92.5(0.9)	93.1(0.8)	87.2(2.8)	89.4(2.5)
	1986	92.9(0.8)	92.3(1.0)	93.6(1.1)	94.3(0.9)	86.9(1.5)	90.2(2.6)
	1982	93.7(0.8)	93.6(1.2)	93.9(1.1)	94.8(0.7)	86.5(2.6)	95.3(2.1)
	1978	91.5(0.7)	90.1(1.0)	92.9(0.8)	93.8(0.6)	80.6(2.5)	85.4(2.5)
Find percent given numbers	1994	58.4(1.7)	66.7(2.1)	49.7(2.5)	63.8(2.0)	37.9(4.3)	44.8(3.7)
	1992	55.6(1.5)	62.1(1.6)	49.6(2.3)	60.3(1.6)	39.8(3.7)	46.9(4.5)
	1990	49.0(1.9)	56.7(2.2)	40.8(2.3)	54.5(2.0)	29.4(3.4)	42.4(3.3)
	1986	47.8(1.8)	55.4(2.6)	40.2(2.4)	53.1(2.0)	23.7(1.9)	37.3(5.1)
	1982	50.8(1.8)	55.6(2.1)	45.6(2.0)	56.1(1.6)	25.8(3.1)	40.0(3.1)
	Find percent of number	1994	41.5(1.4)	45.9(2.2)	36.9(1.3)	45.7(1.5)	21.8(2.5)
1992		36.6(1.5)	42.4(2.1)	31.3(1.8)	40.1(1.7)	26.2(2.2)	27.0(4.3)
1990		35.7(1.5)	39.3(1.9)	31.9(1.6)	38.8(1.8)	25.4(2.6)	27.2(3.5)
1986		33.1(2.2)	36.2(2.6)	30.1(2.1)	35.1(2.6)	25.5(3.6)	24.4(3.8)
1982		32.8(1.3)	36.1(1.6)	29.4(2.2)	34.0(1.6)	26.0(3.6)	29.2(3.1)
Find percent greater than 100		1994	37.5(1.8)	40.7(2.0)	34.1(2.7)	41.4(2.2)	20.8(3.1)
	1992	34.3(1.2)	39.8(1.4)	29.2(1.7)	37.6(1.4)	25.2(3.4)	20.7(2.4)
	1990	31.9(1.9)	37.0(2.4)	26.5(2.0)	35.1(2.2)	22.7(3.0)	22.0(3.6)
	1986	30.3(1.4)	36.4(1.8)	24.2(2.3)	32.8(1.7)	19.6(2.2)	21.6(4.7)
	1982	29.0(1.7)	33.4(2.0)	24.3(2.1)	31.4(1.8)	17.0(3.4)	22.3(3.3)
	Find percent given numbers	1994	30.8(1.7)	35.8(2.0)	26.0(2.0)	34.4(1.9)	17.7(5.6)
1992		29.0(1.5)	33.0(1.9)	24.7(1.8)	32.5(1.7)	16.9(1.8)	19.3(3.4)
1990		24.4(1.2)	28.6(1.5)	20.4(1.4)	27.5(1.3)	11.4(2.2)	18.9(4.4)
1986		25.6(1.6)	28.6(1.8)	22.5(3.9)	27.7(2.0)	17.3(2.4)	17.2(3.0)
1982		22.6(1.2)	26.7(1.8)	18.2(1.6)	24.1(1.4)	15.3(3.3)	18.0(2.1)
Find percent given numbers		1994	52.7(1.9)	59.6(2.1)	46.6(2.5)	58.5(2.0)	31.5(6.2)
	1992	49.0(1.8)	53.8(2.0)	44.1(2.3)	54.4(1.9)	25.3(3.4)	35.3(4.9)
	1990	46.0(1.7)	50.9(1.6)	41.3(2.2)	52.1(1.7)	23.4(3.6)	33.3(5.0)
	1986	38.9(1.8)	42.7(2.2)	35.1(3.0)	43.2(2.1)	16.8(2.7)	28.4(3.2)
	1982	41.2(2.3)	46.1(3.3)	36.0(2.3)	46.0(1.9)	20.9(4.4)	26.0(3.6)
	Find percent of number	1994	42.3(2.0)	44.3(2.3)	40.5(2.9)	44.0(1.6)	38.4(8.8)
1992		41.0(1.4)	42.9(1.9)	39.1(1.8)	44.1(1.7)	25.2(3.1)	29.5(4.7)
1990		34.5(1.4)	38.1(1.6)	31.0(1.8)	37.0(1.5)	21.1(2.8)	27.8(3.5)
1986		33.4(1.1)	37.9(1.7)	29.0(1.5)	34.8(1.4)	24.7(2.4)	30.9(4.2)
1982		32.8(1.4)	32.5(2.0)	33.2(1.6)	34.7(1.6)	24.7(4.0)	21.2(5.1)
Find percent greater than 100		1994	34.5(1.4)	36.9(1.9)	32.4(1.8)	36.7(1.7)	29.3(5.7)
	1992	34.6(1.5)	36.7(1.8)	32.5(1.9)	37.2(1.6)	19.3(2.8)	28.1(4.2)
	1990	29.1(1.3)	33.3(1.7)	25.0(1.7)	31.4(1.6)	19.0(3.0)	23.7(3.0)
	1986	27.7(1.0)	30.1(1.6)	25.5(1.8)	29.0(1.4)	19.2(1.9)	21.7(3.7)
	1982	26.5(1.4)	29.4(2.1)	23.5(1.7)	28.1(1.6)	18.9(3.1)	22.0(2.9)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Find percent given numbers	1994	31.9(1.3)	33.3(1.9)	30.7(1.5)	35.2(1.7)	20.2(3.7)	24.5(6.0)
	1992	32.5(1.4)	35.0(1.7)	30.0(2.0)	34.0(1.6)	24.1(3.0)	27.3(4.5)
	1990	24.9(1.2)	26.6(1.7)	23.3(1.2)	26.3(1.3)	17.0(2.9)	20.6(3.4)
	1986	24.0(2.0)	25.1(1.5)	23.0(3.0)	24.8(2.5)	17.0(2.4)	23.4(2.8)
	1982	24.0(1.3)	24.9(2.2)	23.1(1.6)	25.6(1.5)	16.0(3.3)	13.1(2.1)
Find number given percent	1994	32.6(1.3)	33.8(1.7)	31.5(1.9)	34.4(1.7)	25.0(2.3)	26.9(4.6)
	1992	31.8(1.5)	30.8(1.5)	32.7(2.1)	33.6(1.8)	23.1(2.7)	24.3(3.0)
	1990	26.2(1.2)	26.2(1.4)	26.1(1.7)	27.7(1.4)	17.5(2.1)	23.6(2.8)
	1986	24.6(1.3)	24.8(2.0)	24.5(1.8)	25.0(1.6)	20.8(2.4)	25.3(3.3)
	1982	20.8(1.0)	20.0(1.3)	21.6(1.9)	21.5(1.1)	17.9(1.8)	19.2(5.2)
Subtract decimals	1994	84.8(0.8)	84.8(1.4)	84.8(1.1)	87.2(0.9)	75.1(2.7)	80.6(4.0)
	1992	85.4(1.0)	84.2(1.5)	86.6(1.1)	87.7(1.1)	74.9(3.8)	80.4(2.8)
	1990	86.3(0.8)	86.2(1.3)	86.4(1.1)	88.4(0.7)	79.6(3.0)	82.8(4.0)
	1986	82.6(0.9)	82.6(1.5)	82.7(1.7)	85.3(1.1)	69.9(3.8)	77.9(2.8)
	1982	77.0(2.1)	73.3(3.8)	80.9(1.5)	81.0(2.1)	54.4(XXX)	75.1(3.9)
	1978	80.1(1.3)	80.0(1.6)	80.3(1.5)	83.6(1.2)	61.8(4.3)	74.0(4.2)
Divide decimals	1994	60.8(1.7)	54.0(2.0)	67.0(2.1)	66.9(1.6)	41.5(8.1)	43.6(3.8)
	1992	61.0(2.0)	55.7(2.2)	66.2(2.4)	65.6(2.1)	37.6(4.0)	55.5(4.3)
	1990	56.9(1.3)	52.0(1.7)	61.7(1.8)	60.4(1.5)	45.1(3.7)	45.0(3.6)
	1986	52.4(2.2)	47.9(1.9)	56.9(3.3)	58.1(2.6)	28.5(2.9)	37.2(4.1)
	1982	44.1(1.9)	39.9(2.6)	48.5(2.3)	49.7(2.0)	20.5(4.5)	24.5(3.9)
	1978	54.5(1.9)	50.0(2.1)	58.9(2.3)	59.2(1.8)	28.6(3.8)	46.6(5.8)
Add decimals	1994	78.9(1.6)	74.7(2.0)	82.7(1.8)	81.7(1.7)	70.2(6.0)	70.5(4.1)
	1992	80.5(1.4)	77.6(1.9)	83.4(1.6)	84.1(1.4)	62.2(3.5)	77.6(4.6)
	1990	79.5(1.0)	73.3(1.3)	85.3(1.3)	82.2(1.1)	67.4(3.9)	74.6(3.3)
	1986	74.1(1.4)	69.1(2.0)	79.0(2.0)	77.8(1.6)	55.6(3.2)	66.1(3.3)
	1982	72.5(2.1)	67.2(3.2)	78.2(2.1)	77.8(1.7)	48.8(6.4)	59.7(5.1)
	1978	76.8(1.7)	72.8(2.1)	80.7(1.8)	79.8(1.8)	59.8(4.0)	74.5(3.4)
Divide decimals	1994	66.4(1.7)	63.0(1.9)	69.4(2.0)	70.1(1.7)	52.6(6.4)	60.8(5.4)
	1992	63.6(1.9)	60.3(2.3)	66.8(2.2)	67.1(1.9)	44.3(4.3)	61.3(4.6)
	1990	61.8(1.3)	55.9(1.4)	67.5(1.8)	64.9(1.5)	50.6(3.7)	49.7(3.6)
	1986	58.0(2.2)	53.3(2.4)	62.7(2.4)	63.2(2.7)	34.4(3.9)	48.8(4.8)
	1982	58.0(1.7)	50.0(2.0)	66.4(2.3)	61.6(1.7)	39.3(3.9)	56.8(7.3)
	1978	64.0(1.8)	58.5(2.4)	69.4(2.0)	67.1(1.8)	44.5(3.8)	65.2(4.1)
Subtract decimals	1994	63.6(2.1)	59.6(2.4)	67.2(2.3)	66.5(2.3)	52.0(7.1)	58.6(6.5)
	1992	56.2(1.9)	50.9(2.3)	61.6(2.1)	59.0(2.1)	46.6(4.0)	41.8(4.6)
	1990	57.4(1.8)	49.8(1.8)	64.8(2.4)	59.7(2.1)	50.4(4.0)	48.5(4.0)
	1986	51.3(3.0)	45.7(3.0)	56.9(3.3)	55.2(3.7)	34.1(3.9)	40.4(5.8)
	1982	40.1(1.6)	30.9(1.6)	49.7(2.3)	43.6(1.5)	23.1(3.9)	32.4(5.5)
	1978	43.9(1.6)	38.1(2.2)	49.6(2.1)	47.2(1.5)	28.5(3.5)	32.6(3.7)
Divide decimals	1994	47.6(2.1)	42.8(2.3)	52.0(2.6)	49.7(1.9)	38.9(6.9)	43.4(6.1)
	1992	42.8(1.7)	39.8(1.8)	45.8(2.4)	44.7(2.0)	32.9(3.8)	36.3(3.6)
	1990	43.4(1.7)	38.3(2.0)	48.3(2.1)	46.1(2.1)	33.5(2.5)	30.5(3.6)
	1986	37.1(2.5)	32.4(3.1)	41.6(2.3)	40.3(2.9)	24.1(3.7)	26.9(4.3)
	1982	29.9(1.4)	21.2(1.8)	39.2(1.8)	31.6(1.5)	21.8(4.9)	25.2(2.8)
	1978	41.8(1.8)	36.0(1.9)	47.4(2.3)	45.0(2.0)	26.0(4.5)	32.2(2.7)

The standard errors of the estimated percentages appear in parenthesis.
XXX The standard error exceeds 10.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Estimate total cost	1994	24.0(1.3)	27.8(2.0)	20.0(1.4)	24.8(1.6)	15.3(2.4)	27.3(5.1)
	1992	24.7(1.0)	28.5(1.5)	21.3(1.2)	26.9(1.3)	18.9(2.4)	18.8(2.8)
	1990	22.9(1.3)	25.1(1.8)	20.5(1.5)	24.4(1.5)	20.3(2.8)	15.0(2.7)
	1986	23.6(1.4)	27.1(2.5)	20.1(1.5)	25.0(1.8)	15.1(1.6)	24.3(2.4)
	1982	19.3(1.2)	20.5(1.6)	18.1(1.6)	21.3(1.5)	11.6(2.0)	9.4(3.9)
Identify even number	1994	95.6(0.7)	95.0(0.7)	96.1(1.0)	96.8(0.5)	89.8(3.0)	96.2(1.9)
	1992	96.7(0.5)	96.9(0.7)	96.5(0.6)	98.0(0.5)	93.5(1.6)	89.6(2.1)
	1990	96.2(0.4)	95.7(0.6)	96.6(0.6)	97.1(0.3)	93.8(2.0)	89.9(1.6)
	1986	95.3(0.8)	94.6(0.9)	96.0(1.0)	96.5(0.9)	91.0(1.4)	90.7(3.3)
	1982	95.9(0.6)	95.9(0.7)	95.9(0.9)	97.4(0.6)	90.7(2.0)	87.0(5.4)
	1978	92.9(0.8)	93.0(1.0)	92.8(1.0)	95.4(0.6)	81.8(2.1)	83.5(2.9)
Identify even number property	1994	53.1(1.4)	56.0(2.1)	50.2(2.3)	56.2(1.6)	35.7(3.9)	51.6(5.0)
	1992	52.0(1.4)	52.7(1.7)	51.4(2.2)	55.2(1.7)	43.2(2.4)	39.2(3.3)
	1990	49.2(1.7)	51.2(2.3)	47.1(2.0)	53.3(2.1)	35.8(3.2)	38.8(3.2)
	1986	48.5(1.8)	51.7(2.4)	45.3(1.6)	51.0(2.1)	35.6(3.9)	44.0(2.4)
	1982	58.4(1.8)	58.2(2.0)	58.5(2.1)	60.9(2.1)	45.2(2.8)	53.8(6.8)
	1978	54.6(1.6)	52.6(2.1)	56.5(2.1)	58.3(1.8)	37.8(3.0)	40.7(3.5)
Identify even number property	1994	72.9(1.6)	70.1(2.0)	75.5(1.9)	76.6(1.7)	61.8(6.7)	59.4(4.1)
	1992	72.6(1.6)	71.6(1.7)	73.6(2.1)	76.2(1.3)	58.4(4.6)	64.6(3.7)
	1990	72.0(1.5)	70.0(1.6)	73.9(2.0)	76.8(1.4)	54.8(4.8)	61.8(3.6)
	1986	70.1(1.1)	68.8(1.7)	71.5(2.2)	72.9(1.4)	59.0(4.2)	60.8(3.8)
	1982	76.8(1.4)	75.1(2.1)	78.5(1.8)	80.8(1.2)	60.6(4.0)	61.5(4.9)
	1978	70.9(1.6)	68.4(2.1)	73.4(1.8)	75.7(1.5)	48.4(3.7)	55.8(4.2)
Understand percent less than 1	1994	28.5(1.5)	28.3(1.9)	28.8(1.8)	32.8(1.9)	16.6(2.2)	13.8(3.4)
	1992	25.0(1.3)	26.5(1.6)	23.4(1.7)	26.9(1.6)	16.7(2.3)	18.9(3.5)
	1990	23.3(1.1)	25.9(1.4)	20.8(1.4)	24.3(1.3)	20.5(2.3)	17.1(2.2)
	1986	22.5(1.4)	22.4(1.3)	22.6(2.0)	24.1(1.7)	13.5(2.2)	21.2(2.8)
	1982	17.1(1.1)	16.7(1.7)	17.4(1.9)	17.6(1.3)	15.0(2.8)	12.3(3.5)
	1978	19.0(1.2)	19.2(1.5)	18.8(1.5)	19.6(1.4)	15.4(2.1)	16.9(2.7)
Identify expected value	1994	64.0(1.8)	69.3(2.0)	58.5(1.9)	68.4(2.0)	48.9(4.0)	51.2(4.9)
	1992	60.6(1.3)	65.6(1.6)	56.0(2.0)	66.1(1.6)	44.4(2.4)	46.6(4.4)
	1990	57.4(1.6)	62.4(1.9)	52.2(2.1)	63.1(1.7)	34.8(3.7)	48.7(3.5)
	1986	54.9(1.9)	59.1(2.0)	50.8(3.5)	58.9(2.5)	38.8(2.5)	46.0(3.2)
	1982	65.6(1.8)	69.8(2.3)	61.3(2.2)	69.3(1.9)	46.2(3.3)	62.5(2.8)
	1978	64.8(1.3)	69.2(1.3)	60.4(2.1)	68.2(1.6)	51.8(2.4)	49.8(2.9)
Identify number sentence	1994	79.1(1.5)	79.8(2.2)	78.4(1.6)	83.2(1.4)	66.5(3.1)	68.8(3.7)
	1992	77.9(1.1)	76.4(2.0)	79.6(1.2)	81.3(1.3)	63.2(2.7)	75.1(3.3)
	1990	78.4(1.0)	77.0(1.4)	79.7(1.4)	81.1(1.1)	68.1(3.0)	68.3(2.4)
	1986	75.7(2.3)	77.3(2.1)	74.1(3.1)	78.5(2.7)	64.4(3.6)	67.7(4.4)
	1982	80.4(1.1)	79.8(1.8)	81.1(1.3)	84.9(1.0)	56.7(2.8)	73.7(3.9)
	1978	81.5(1.1)	81.5(1.3)	81.5(1.3)	85.4(1.0)	64.9(2.8)	65.1(4.0)
Understand decimal place value	1994	48.9(1.6)	52.2(2.3)	45.8(1.8)	55.6(1.7)	25.2(3.3)	32.6(2.0)
	1992	48.0(1.6)	49.9(2.1)	46.0(1.6)	53.3(2.0)	26.5(2.9)	40.0(3.7)
	1990	44.2(1.6)	47.3(1.8)	41.2(2.2)	48.9(1.8)	25.3(3.3)	29.0(4.0)
	1986	40.5(1.9)	42.2(1.6)	38.8(3.7)	44.3(2.1)	22.2(2.7)	32.5(4.6)
	1982	46.6(2.2)	46.3(2.7)	47.0(2.3)	52.4(2.6)	21.1(2.9)	24.7(3.3)
	1978	37.4(1.5)	39.2(1.7)	35.7(2.0)	40.9(1.7)	20.6(2.0)	22.8(4.7)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Divide integers	1994	34.6(2.0)	32.7(2.3)	36.4(2.0)	36.3(2.2)	28.1(3.9)	25.4(3.0)
	1992	30.2(1.8)	28.4(2.0)	32.2(2.1)	30.1(2.2)	28.3(2.2)	33.7(4.3)
	1990	30.4(1.6)	25.5(1.6)	35.2(2.3)	30.3(2.0)	29.8(3.6)	28.2(3.1)
	1986	28.5(2.8)	27.7(2.4)	29.4(3.8)	29.8(3.3)	25.4(3.6)	15.9(4.1)
	1982	30.0(1.7)	27.8(2.1)	32.3(2.2)	31.8(2.1)	23.1(3.0)	19.1(2.7)
	1978	30.2(2.1)	27.4(2.1)	33.0(2.6)	33.0(2.4)	17.3(2.9)	18.8(2.5)
Divide integers	1994	28.9(2.0)	29.9(2.5)	27.9(2.1)	30.2(2.2)	18.4(1.7)	20.8(3.8)
	1992	25.2(1.5)	22.2(1.5)	28.0(2.1)	25.5(1.6)	23.8(2.8)	20.2(3.2)
	1990	23.2(2.1)	21.6(2.5)	24.9(2.0)	24.4(2.3)	20.8(4.3)	16.0(2.6)
	1986	21.8(2.3)	20.5(2.2)	23.0(3.0)	23.9(2.7)	13.7(2.2)	7.7(1.9)
	1982	26.9(1.7)	24.7(2.1)	29.1(2.4)	28.6(1.9)	19.9(3.3)	16.8(3.9)
	1978	28.5(1.9)	26.2(2.3)	30.8(2.2)	30.6(2.2)	21.6(3.3)	15.8(6.9)
Convert fraction to decimal	1994	59.9(1.9)	57.2(2.1)	62.6(2.7)	64.7(1.5)	38.8(5.8)	46.5(3.8)
	1992	59.3(1.8)	58.2(1.9)	60.3(2.4)	63.2(2.2)	46.2(3.7)	45.8(3.9)
	1990	61.4(2.0)	60.4(2.7)	62.4(1.8)	66.8(1.9)	44.0(6.2)	47.8(4.5)
	1986	59.3(1.6)	57.3(2.0)	61.3(1.7)	62.6(2.1)	44.6(3.9)	53.6(6.5)
	1982	62.9(2.3)	60.3(2.7)	65.5(2.6)	66.9(2.8)	41.5(3.8)	53.6(5.9)
	1978	54.7(2.1)	53.6(2.4)	55.7(2.6)	61.0(2.1)	27.8(3.4)	29.5(5.7)
Convert fraction to decimal	1994	62.1(1.8)	60.2(1.7)	64.1(2.7)	67.4(1.3)	38.9(4.2)	47.1(4.5)
	1992	63.3(1.7)	62.5(1.9)	64.0(2.1)	67.7(2.0)	50.3(3.0)	48.9(5.1)
	1990	62.0(1.7)	61.9(2.5)	62.1(1.6)	67.0(1.8)	44.7(4.9)	54.0(4.2)
	1986	62.5(1.6)	59.7(2.2)	65.2(2.1)	67.4(2.2)	42.1(3.2)	49.0(4.9)
	1982	68.4(2.0)	64.5(2.5)	72.3(2.4)	72.5(2.3)	45.2(3.8)	65.8(5.6)
	1978	54.3(1.9)	53.4(2.1)	55.2(2.3)	59.8(1.8)	28.0(3.3)	37.3(5.4)
Convert fraction to decimal	1994	35.2(1.8)	39.3(3.2)	31.0(1.6)	39.5(2.1)	16.8(2.5)	23.5(3.9)
	1992	33.2(1.3)	35.2(1.5)	31.4(1.9)	37.8(1.6)	18.3(3.0)	20.5(3.0)
	1990	33.0(2.0)	35.0(2.8)	30.8(1.7)	38.1(2.1)	13.6(3.5)	23.7(4.0)
	1986	34.3(1.3)	35.6(1.8)	33.0(2.0)	38.1(1.8)	17.8(2.1)	22.5(3.2)
	1982	40.2(1.6)	40.4(2.5)	40.0(2.0)	44.5(2.0)	18.5(3.5)	28.9(4.8)
	1978	40.2(2.0)	41.4(2.0)	39.0(2.8)	45.9(2.0)	12.8(2.2)	23.0(4.9)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 17

Weighted percentage correct by subgroups across assessment years

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Find area of irregular shape	1994	21.6(2.0)	26.1(2.8)	17.1(1.7)	25.2(2.3)	5.8(1.9)	17.7(5.2)
	1992	23.6(1.8)	28.4(2.6)	18.6(1.5)	27.2(2.0)	6.0(1.9)	17.8(3.0)
	1990	22.2(1.8)	25.8(2.2)	18.6(2.0)	24.3(2.1)	11.2(3.5)	13.6(3.7)
	1986	19.5(1.2)	24.7(2.0)	14.6(1.5)	22.5(1.3)	5.3(1.9)	6.2(2.6)
	1982	13.9(1.2)	17.2(1.7)	10.8(1.2)	16.1(1.3)	3.1(0.9)	3.2(1.8)
	1978	16.1(1.3)	22.1(1.8)	10.7(1.3)	17.8(1.4)	3.3(1.1)	6.8(2.9)
Relate square to circle	1994	63.3(1.4)	63.6(1.8)	63.3(2.0)	68.5(1.6)	45.9(4.4)	48.9(4.2)
	1992	63.9(1.4)	64.9(2.1)	62.8(1.9)	67.6(1.6)	46.6(3.2)	52.5(4.8)
	1990	63.6(1.7)	64.6(1.9)	62.6(2.1)	66.2(1.9)	56.3(4.5)	52.1(6.8)
	1986	54.6(1.6)	59.5(2.3)	50.2(1.8)	57.1(1.9)	44.0(3.2)	42.4(4.6)
	1982	57.7(1.5)	61.9(2.5)	53.6(2.2)	61.6(1.6)	35.1(3.5)	46.4(3.9)
Use properties of triangles	1994	69.5(1.7)	70.2(2.3)	68.8(2.1)	73.8(1.6)	53.1(5.2)	64.2(5.5)
	1992	70.4(1.2)	70.0(1.4)	70.8(1.7)	74.4(1.4)	55.6(3.3)	54.9(4.4)
	1990	68.3(1.8)	68.1(2.0)	68.4(2.0)	70.9(2.1)	58.2(4.5)	55.6(3.9)
	1986	62.7(1.9)	64.6(2.1)	61.0(2.2)	66.5(1.9)	48.7(4.2)	43.0(4.2)
	1982	58.2(1.5)	59.1(1.8)	57.3(1.6)	61.9(1.8)	40.4(3.4)	32.8(4.1)
	1978	60.3(1.6)	63.0(1.9)	57.8(2.1)	63.4(1.8)	41.1(3.6)	50.5(5.6)
Use properties of triangles	1994	60.2(1.4)	61.2(1.6)	59.2(2.3)	63.6(1.7)	46.7(3.0)	57.0(5.6)
	1992	57.7(1.5)	57.3(1.7)	58.2(2.1)	60.7(1.4)	47.5(2.8)	43.3(6.4)
	1990	57.4(1.6)	57.2(2.1)	57.5(1.7)	58.5(1.8)	51.9(3.2)	49.4(XXX)
	1986	57.2(1.5)	57.6(1.5)	56.8(2.3)	61.1(1.7)	42.0(3.4)	46.3(4.3)
	1982	54.3(1.2)	54.3(1.7)	54.3(1.7)	56.6(1.3)	44.0(3.2)	38.1(5.1)
	1978	53.2(1.5)	55.3(1.9)	51.3(1.9)	55.6(1.6)	42.2(3.2)	38.4(5.1)
Use properties of triangles	1994	51.9(1.5)	54.8(2.3)	49.2(1.7)	54.4(1.8)	41.6(3.4)	46.6(4.9)
	1992	53.9(1.2)	55.8(1.9)	51.9(1.4)	56.1(1.5)	42.7(2.9)	45.3(3.6)
	1990	49.6(2.0)	52.4(2.7)	46.7(2.3)	51.4(1.9)	43.9(6.2)	35.4(5.3)
	1986	45.7(1.7)	47.3(2.3)	44.3(1.8)	49.3(2.0)	30.1(3.9)	34.3(5.1)
	1982	44.9(1.8)	46.1(2.2)	43.8(1.8)	48.1(2.2)	26.1(2.7)	32.8(5.9)
	1978	47.4(1.4)	53.4(1.9)	41.9(1.8)	49.9(1.6)	37.8(3.9)	25.0(3.6)
Use properties of triangles	1994	54.2(1.5)	55.4(2.1)	53.1(1.7)	56.9(1.7)	44.3(3.1)	45.2(4.4)
	1992	55.8(1.2)	56.2(1.7)	55.4(1.6)	58.2(1.3)	45.2(2.8)	47.5(5.2)
	1990	54.3(1.5)	56.2(1.6)	52.3(2.1)	56.4(1.6)	43.7(3.4)	47.7(6.0)
	1986	50.2(1.5)	53.6(1.6)	47.0(2.1)	53.0(1.6)	38.0(3.0)	36.3(6.6)
	1982	50.9(1.6)	52.2(2.0)	49.6(1.9)	53.7(1.9)	33.0(2.5)	43.3(6.0)
	1978	54.7(1.8)	60.1(1.9)	49.8(2.2)	57.4(1.9)	42.3(3.8)	33.8(5.9)
Identify a sphere	1994	80.7(1.1)	84.9(1.4)	76.5(1.6)	85.5(1.0)	65.3(4.9)	69.5(5.3)
	1992	82.3(1.3)	86.0(1.7)	78.3(1.6)	84.1(1.3)	74.2(4.8)	77.9(3.5)
	1990	80.0(1.4)	82.4(1.8)	77.6(1.5)	83.7(1.1)	65.9(5.1)	67.8(7.6)
	1986	77.2(1.3)	79.4(2.1)	75.1(1.7)	81.8(1.4)	62.2(3.9)	54.9(4.8)
	1982	76.1(1.5)	77.5(1.7)	74.8(1.8)	81.6(1.4)	49.4(4.7)	55.6(4.6)
	1978	79.1(1.3)	81.0(1.5)	77.5(1.6)	83.4(1.2)	51.6(3.1)	65.2(4.2)
Apply angle addition property	1994	61.2(1.1)	61.8(1.6)	60.9(1.6)	64.7(1.6)	50.5(4.0)	52.2(5.2)
	1992	59.6(1.5)	61.7(1.6)	57.4(2.1)	62.3(1.4)	46.4(3.4)	51.1(5.5)
	1990	59.8(1.8)	60.5(1.9)	59.0(2.2)	61.9(2.2)	51.5(3.1)	51.8(5.5)
	1986	60.2(1.6)	62.3(2.4)	58.3(2.1)	64.0(1.6)	41.6(5.4)	51.8(5.3)
	1982	63.7(1.6)	65.3(1.9)	62.3(2.1)	67.4(1.5)	48.0(3.4)	43.9(4.3)
	1978	63.4(1.4)	63.6(2.2)	63.2(1.5)	66.3(1.5)	44.9(2.8)	55.6(6.8)

The standard errors of the estimated percentages appear in parenthesis.
XXX The standard error exceeds 10.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Identify parallel lines	1994	96.2(0.6)	96.0(0.7)	96.4(0.7)	97.1(0.7)	93.2(2.0)	94.4(2.2)
	1992	96.4(0.4)	95.7(0.7)	97.2(0.6)	97.6(0.4)	91.8(2.2)	93.2(2.5)
	1990	97.1(0.5)	96.8(0.8)	97.5(0.6)	98.0(0.4)	95.7(1.0)	91.1(5.2)
	1986	95.8(0.6)	96.2(0.7)	95.4(0.8)	97.9(0.4)	87.5(2.4)	90.9(3.2)
	1982	96.3(0.6)	97.0(0.7)	95.6(0.9)	97.8(0.5)	89.5(2.2)	87.3(2.3)
	1978	94.8(0.7)	94.3(1.0)	95.2(0.7)	96.8(0.6)	83.3(2.3)	85.0(7.8)
Identify perpendicular lines	1994	68.9(1.9)	68.3(2.1)	69.9(2.5)	73.0(2.1)	56.2(3.0)	58.1(7.6)
	1992	68.3(1.3)	64.9(1.6)	71.9(1.7)	71.4(1.3)	57.6(4.1)	52.9(3.2)
	1990	65.8(1.8)	64.1(2.4)	67.6(1.8)	68.9(2.2)	55.7(4.5)	46.9(4.2)
	1986	65.4(1.7)	65.8(2.0)	65.0(2.2)	70.1(1.7)	46.8(3.9)	48.7(5.1)
	1982	70.3(1.7)	73.8(2.3)	67.2(2.0)	74.6(1.7)	49.1(3.9)	53.1(4.7)
	1978	70.1(1.5)	72.8(1.8)	67.7(1.9)	74.6(1.3)	46.0(4.1)	42.8(5.4)
Apply concept of inequality	1994	25.3(1.4)	28.1(1.9)	22.6(1.7)	27.0(1.6)	20.4(2.8)	18.8(3.3)
	1992	23.8(1.0)	25.6(1.6)	21.9(1.6)	24.0(1.1)	21.5(2.9)	23.2(3.4)
	1990	25.5(1.3)	30.0(1.9)	21.0(1.3)	24.7(1.6)	25.1(2.4)	28.9(5.4)
	1986	25.5(1.2)	28.2(2.2)	23.1(1.3)	26.1(1.4)	19.4(2.3)	27.8(4.2)
	1982	35.4(1.2)	37.0(2.0)	34.0(1.3)	36.9(1.5)	25.7(3.0)	35.9(4.5)
	1978	34.3(1.4)	38.9(2.2)	30.2(1.3)	36.0(1.6)	23.3(3.4)	24.8(4.9)
Define equivalent equations	1994	55.6(1.8)	53.9(2.1)	57.4(2.7)	61.0(1.9)	37.3(4.1)	40.5(3.9)
	1992	57.0(1.3)	56.2(1.8)	57.8(1.6)	62.5(1.5)	38.7(3.0)	46.7(4.4)
	1990	55.1(1.6)	55.0(1.8)	55.1(2.3)	58.6(1.5)	40.2(3.8)	50.6(4.5)
	1986	56.5(2.8)	56.0(3.4)	57.0(3.2)	59.4(3.1)	44.0(4.4)	45.8(4.4)
	1982	52.5(2.2)	53.7(2.6)	51.3(2.6)	55.8(2.5)	38.4(3.7)	31.5(5.0)
	1978	60.2(1.4)	60.7(1.9)	59.7(2.1)	63.2(1.4)	42.9(4.7)	46.1(4.8)
Identify valid identity	1994	30.2(1.4)	30.3(2.1)	30.2(1.3)	31.4(1.5)	27.3(2.6)	18.8(3.2)
	1992	33.9(1.3)	34.2(1.8)	33.6(1.9)	35.3(1.5)	26.6(2.8)	27.6(4.8)
	1990	33.9(1.5)	33.9(1.8)	33.9(1.8)	35.2(1.5)	26.8(3.4)	29.2(9.4)
	1986	32.0(1.4)	33.4(1.9)	30.7(1.7)	33.0(1.7)	27.5(2.6)	26.7(3.2)
	1982	38.6(1.9)	39.5(2.4)	37.8(2.0)	40.2(2.0)	31.0(3.7)	33.1(4.2)
	1978	37.9(1.4)	38.1(2.1)	37.7(1.9)	39.4(1.6)	28.4(2.9)	28.9(6.8)
Add monomials	1994	82.2(1.2)	81.0(1.8)	84.0(1.6)	84.6(1.5)	75.5(2.3)	74.6(4.3)
	1992	79.5(1.2)	77.0(1.4)	82.1(1.8)	82.7(1.2)	67.0(3.8)	63.6(3.8)
	1990	78.3(1.5)	75.0(1.9)	81.6(1.6)	81.1(1.7)	68.0(5.3)	61.4(5.6)
	1986	73.3(1.7)	71.6(2.0)	74.9(1.9)	77.4(1.8)	55.8(3.9)	58.5(5.3)
	1982	64.4(1.3)	63.0(1.8)	65.7(1.7)	67.7(1.5)	46.4(3.4)	45.7(3.2)
	1978	63.3(1.8)	61.8(2.3)	64.7(2.0)	68.1(1.7)	36.4(3.1)	38.4(3.7)
Simplify square root	1994	15.5(1.2)	19.9(2.2)	11.1(1.4)	17.3(1.4)	9.6(2.9)	5.0(1.3)
	1992	16.4(1.0)	18.2(1.6)	14.6(1.3)	18.4(1.1)	6.1(2.0)	9.0(2.8)
	1990	15.2(1.1)	17.9(1.4)	12.4(1.3)	16.1(1.2)	11.0(2.7)	8.7(4.4)
	1986	15.0(1.3)	18.2(1.8)	12.1(1.4)	16.6(1.5)	4.8(1.8)	7.1(3.0)
	1982	11.8(1.3)	13.2(1.8)	10.5(1.3)	12.8(1.4)	3.9(1.3)	11.1(3.8)
	1978	11.3(1.2)	14.4(1.5)	8.4(1.3)	12.2(1.2)	5.2(1.9)	4.8(2.8)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Evaluate function for value	1994	58.1(1.8)	55.8(2.5)	60.3(2.1)	62.7(1.9)	46.2(3.2)	42.2(4.9)
	1992	56.3(1.6)	55.4(2.1)	57.2(2.1)	61.6(1.8)	36.4(3.0)	40.6(5.7)
	1990	50.4(1.5)	47.9(2.0)	52.5(1.9)	53.2(1.5)	44.9(5.4)	34.6(4.6)
	1986	53.4(1.8)	52.5(2.6)	54.3(2.4)	56.4(1.8)	38.7(5.2)	43.1(4.0)
	1982	48.8(1.8)	49.6(1.9)	48.1(2.3)	50.8(1.7)	38.7(4.5)	34.1(7.3)
	1978	43.7(1.7)	44.3(2.7)	43.1(2.4)	46.4(1.9)	27.8(3.3)	29.5(3.7)
Evaluate algebraic expression	1994	91.2(0.8)	90.7(1.1)	92.1(1.1)	93.1(0.8)	86.1(2.1)	84.7(4.3)
	1992	91.2(1.0)	89.9(1.2)	92.5(1.1)	93.2(0.7)	83.8(3.6)	82.6(4.9)
	1990	90.8(0.8)	90.1(1.2)	91.6(0.8)	92.3(0.7)	85.6(2.9)	83.7(6.3)
	1986	89.3(0.9)	88.7(1.3)	90.0(0.9)	92.3(1.0)	78.2(3.0)	81.0(3.4)
	1982	89.1(0.9)	88.8(1.3)	89.5(1.2)	91.6(0.9)	75.3(2.4)	82.3(3.8)
	1978	89.9(0.9)	90.2(1.2)	89.6(1.3)	92.8(0.8)	73.9(3.4)	77.0(3.7)
Identify number line property	1994	71.7(1.0)	73.1(1.5)	70.6(1.2)	77.2(0.9)	51.3(3.5)	59.0(4.1)
	1992	74.5(1.2)	75.3(1.7)	73.7(1.8)	79.2(1.2)	54.4(3.5)	58.2(4.2)
	1990	71.7(1.4)	73.2(2.0)	70.3(1.6)	76.5(1.3)	52.7(5.0)	58.1(4.1)
	1986	69.0(1.7)	70.3(2.1)	67.7(2.2)	74.4(1.8)	44.9(3.3)	51.1(3.8)
	1982	61.4(1.6)	65.5(2.4)	57.3(2.5)	66.1(1.6)	37.6(2.4)	39.4(4.7)
	1978	70.9(1.6)	74.9(2.1)	67.0(1.8)	75.4(1.7)	46.9(3.6)	54.6(5.3)
Identify linear inequality	1994	33.5(1.2)	36.2(1.4)	31.1(1.9)	35.7(1.5)	28.2(3.0)	27.5(3.6)
	1992	34.4(1.2)	34.7(1.8)	34.1(1.9)	35.2(0.9)	29.3(5.9)	29.8(4.5)
	1990	35.1(1.7)	37.4(2.0)	33.1(2.0)	36.6(1.8)	30.3(4.2)	29.4(3.2)
	1986	35.4(1.9)	38.1(2.5)	32.7(2.0)	35.5(2.2)	33.8(3.5)	34.8(5.5)
	1982	32.0(1.7)	31.9(2.1)	32.0(1.7)	33.0(2.1)	28.0(3.0)	25.5(4.7)
	1978	33.6(1.0)	36.3(1.4)	30.9(1.4)	34.9(1.2)	27.7(3.4)	22.3(3.8)
Find percent greater than 100	1994	71.3(1.6)	78.1(1.8)	64.8(2.1)	77.4(1.6)	48.2(4.5)	57.9(6.5)
	1992	73.6(1.6)	78.3(2.3)	68.6(1.7)	77.0(1.6)	58.4(3.6)	62.8(4.4)
	1990	72.8(1.6)	76.0(1.9)	69.7(2.1)	77.4(1.8)	55.7(3.8)	55.2(8.0)
	1986	70.6(1.4)	75.2(1.7)	66.5(1.9)	74.4(1.6)	57.4(3.6)	56.1(5.1)
	1982	65.0(1.6)	67.4(2.1)	62.6(1.8)	68.0(1.7)	49.5(3.5)	54.4(4.8)
	1978	58.2(1.5)	66.7(1.7)	50.6(2.1)	60.0(1.6)	41.7(2.8)	60.4(9.1)
Understand concept of percent	1994	70.9(1.2)	76.0(1.5)	65.9(1.8)	76.7(1.2)	50.4(3.0)	58.6(5.9)
	1992	71.0(1.6)	75.2(2.3)	66.5(1.7)	75.8(1.3)	51.3(5.3)	50.6(4.1)
	1990	70.5(1.8)	75.1(2.2)	65.9(1.9)	75.8(1.7)	54.4(6.8)	43.1(8.0)
	1986	69.6(1.4)	74.1(1.9)	65.5(1.9)	75.8(1.2)	46.3(4.3)	47.7(7.6)
	1982	71.4(1.8)	76.2(1.8)	66.6(2.3)	76.3(1.5)	46.8(5.0)	51.5(6.1)
	1978	67.9(1.5)	75.2(1.6)	61.4(2.1)	72.0(1.5)	45.3(3.3)	43.0(6.0)
Convert decimal to percent	1994	60.0(1.5)	63.4(1.8)	57.0(1.7)	64.4(1.8)	41.6(5.3)	53.7(6.3)
	1992	60.8(1.4)	62.7(1.7)	58.9(1.6)	64.5(1.6)	41.2(4.1)	55.5(3.5)
	1990	61.3(1.8)	62.0(2.7)	60.6(1.9)	64.1(1.7)	49.1(5.2)	45.7(5.9)
	1986	54.1(1.6)	55.3(2.4)	53.0(1.6)	58.4(1.8)	34.3(2.4)	37.5(4.8)
	1982	44.9(1.9)	49.2(2.8)	40.6(2.0)	48.5(2.1)	25.7(3.5)	29.9(5.0)
	1978	45.0(1.6)	45.7(1.9)	44.3(2.0)	47.4(1.6)	27.6(3.2)	40.9(7.0)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Convert percent to decimal	1994	92.7(0.7)	92.0(0.9)	93.5(1.1)	93.8(0.8)	88.8(2.4)	89.4(2.9)
	1992	93.3(1.0)	92.8(1.1)	93.8(1.1)	94.5(1.0)	89.1(2.8)	88.0(2.6)
	1990	94.9(0.6)	94.3(0.9)	95.5(0.7)	95.6(0.5)	90.1(2.1)	96.2(1.9)
	1986	92.6(0.6)	91.1(1.1)	94.0(0.7)	94.0(0.5)	87.1(2.6)	88.2(2.8)
	1982	81.6(0.9)	81.7(1.6)	81.6(1.3)	83.4(1.1)	74.7(2.3)	71.9(5.5)
	1978	78.2(1.1)	77.8(1.6)	78.5(1.2)	79.0(1.1)	74.0(3.0)	72.1(6.9)
Use concept of percent	1994	58.9(1.8)	65.0(2.0)	53.0(2.0)	66.4(1.6)	29.9(3.3)	46.2(7.1)
	1992	63.4(1.8)	68.5(2.5)	58.0(2.2)	69.6(1.8)	37.8(4.2)	44.2(5.0)
	1990	62.4(1.8)	66.0(2.2)	58.8(1.9)	69.5(1.9)	37.2(5.3)	41.0(6.2)
	1986	61.1(1.7)	64.8(2.1)	57.7(2.3)	67.4(1.8)	34.2(4.2)	42.3(7.1)
	1982	70.9(1.7)	74.5(1.5)	67.4(2.7)	76.8(1.9)	45.2(3.1)	45.1(1.8)
	1978	69.8(1.3)	74.4(1.7)	65.4(1.7)	74.9(1.1)	38.6(4.4)	53.0(5.2)
Find percent of number	1994	64.0(1.5)	66.7(2.1)	61.1(2.0)	68.2(1.6)	47.1(3.5)	57.8(5.1)
	1992	71.1(1.0)	73.8(1.5)	68.4(1.5)	74.0(1.0)	62.2(3.0)	56.4(4.7)
	1990	69.2(1.6)	74.1(1.8)	64.2(2.2)	72.8(1.7)	58.1(5.1)	46.4(4.8)
	1986	68.4(1.4)	71.9(1.6)	65.2(1.9)	72.9(1.3)	49.5(3.5)	54.9(5.3)
	1982	69.6(1.4)	75.1(1.6)	64.2(2.0)	73.5(1.5)	49.4(2.7)	49.1(4.6)
	1978	69.3(1.4)	76.0(1.7)	63.1(1.8)	73.6(1.4)	45.8(4.0)	50.8(5.7)
Solve percent problem	1994	70.8(1.7)	72.4(2.3)	69.0(1.8)	76.1(1.8)	57.2(3.9)	51.4(4.9)
	1992	70.0(1.2)	74.5(1.3)	65.4(1.9)	75.1(1.1)	52.7(4.0)	57.0(4.4)
	1990	68.2(1.5)	73.0(1.7)	64.0(2.3)	73.7(1.4)	52.6(4.5)	51.1(3.9)
	1986	68.3(1.5)	70.9(2.1)	65.7(1.8)	73.4(1.4)	43.0(4.6)	60.9(5.5)
	1982	72.4(1.9)	72.6(2.9)	72.2(1.9)	75.5(2.2)	57.6(3.3)	57.5(2.8)
	1978	67.0(1.5)	69.3(2.0)	64.9(1.8)	70.4(1.6)	47.2(3.1)	54.2(5.9)
Add integers	1994	87.3(0.8)	86.9(1.3)	87.9(1.1)	89.8(1.1)	79.2(2.3)	78.7(2.8)
	1992	87.2(1.0)	88.7(0.9)	85.6(1.7)	89.8(1.0)	77.8(2.3)	76.8(4.2)
	1990	87.0(1.2)	86.3(1.6)	87.6(1.2)	89.2(1.4)	77.7(3.4)	77.9(5.0)
	1986	82.9(1.2)	83.8(1.4)	82.2(1.9)	86.8(1.0)	66.3(4.3)	70.2(5.1)
	1982	76.8(1.5)	79.1(1.6)	74.5(1.9)	82.2(1.3)	49.6(5.2)	59.4(5.1)
	1978	79.8(1.5)	79.1(1.7)	80.3(1.8)	84.7(1.4)	49.7(3.1)	60.8(5.0)
Add integers	1994	90.6(0.9)	92.3(1.3)	89.3(1.1)	93.6(0.9)	82.1(2.6)	81.8(4.4)
	1992	90.5(0.9)	91.6(1.3)	89.4(1.0)	92.9(0.8)	82.0(3.6)	80.0(3.6)
	1990	89.4(1.2)	88.9(1.6)	89.9(1.2)	92.6(0.9)	80.0(3.4)	70.6(XXX)
	1986	87.2(1.3)	89.5(1.4)	85.1(1.7)	90.8(1.0)	71.9(4.4)	76.4(4.7)
	1982	84.1(1.3)	84.7(1.5)	83.5(1.8)	89.0(1.3)	60.3(3.9)	61.6(5.1)
	1978	84.7(1.3)	85.8(1.5)	83.6(1.6)	88.5(1.1)	60.5(4.1)	74.4(4.6)
Estimate square root	1994	45.7(1.7)	51.1(2.0)	40.4(2.4)	51.6(2.1)	24.5(3.1)	32.9(5.2)
	1992	47.1(1.5)	50.7(1.7)	43.4(2.1)	52.3(1.8)	23.8(3.4)	34.6(3.5)
	1990	48.3(2.0)	51.4(2.4)	45.2(2.3)	52.7(2.1)	32.7(6.0)	26.4(4.8)
	1986	46.2(1.5)	50.1(2.1)	42.7(2.1)	50.7(1.7)	27.3(3.6)	29.7(3.2)
	1982	42.5(2.0)	48.3(2.8)	36.7(2.5)	47.3(2.2)	17.9(2.3)	27.3(3.7)
	1978	42.6(1.4)	47.6(2.0)	38.1(1.8)	47.3(1.5)	16.6(2.6)	15.0(4.0)

The standard errors of the estimated percentages appear in parenthesis.
XXX The standard error exceeds 10.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Estimate square root	1994	60.1(1.6)	62.9(2.2)	57.2(1.8)	65.4(1.9)	40.4(4.0)	50.2(5.5)
	1992	59.0(1.5)	61.2(1.8)	56.8(2.0)	63.9(1.5)	36.3(4.1)	47.9(4.7)
	1990	58.1(2.1)	60.2(2.6)	56.0(2.0)	62.6(2.2)	41.6(6.9)	39.4(5.0)
	1986	53.1(1.8)	57.9(2.7)	48.7(2.1)	58.1(1.8)	32.1(4.4)	37.5(4.7)
	1982	56.3(1.8)	59.9(2.2)	52.9(2.6)	60.6(1.7)	31.0(3.3)	44.7(4.9)
	1978	58.1(1.9)	62.8(2.0)	53.9(2.5)	62.5(2.1)	33.2(3.8)	33.4(7.2)
Solve number sentence	1994	65.9(1.6)	67.1(1.8)	65.0(2.5)	71.0(1.5)	49.0(3.4)	54.6(4.7)
	1992	72.7(1.3)	72.0(1.9)	73.4(1.6)	77.4(1.2)	53.1(4.3)	59.5(4.3)
	1990	72.4(1.3)	71.4(1.9)	73.5(1.4)	75.5(1.4)	59.6(2.8)	67.9(4.1)
	1986	69.9(1.7)	71.5(2.0)	68.5(2.1)	74.2(1.8)	52.3(4.6)	60.8(4.8)
	1982	60.6(1.4)	63.9(1.9)	57.6(1.7)	65.7(1.4)	35.9(3.9)	39.7(3.8)
	1978	68.2(1.5)	70.0(1.9)	66.4(2.1)	73.7(1.4)	37.5(3.3)	42.4(5.8)
Estimate weight	1994	58.6(1.4)	57.4(2.3)	59.7(1.8)	61.3(1.4)	50.5(3.5)	50.7(4.2)
	1992	62.3(1.2)	62.1(1.9)	62.6(1.9)	66.1(1.2)	44.5(4.0)	56.5(4.4)
	1990	63.6(1.7)	64.5(2.1)	62.7(2.1)	65.2(1.9)	57.9(4.1)	57.2(8.2)
	1986	62.9(1.3)	65.6(2.0)	60.5(1.6)	65.6(1.3)	52.1(2.9)	55.6(5.3)
	1982	45.9(1.7)	48.4(2.5)	43.5(1.6)	48.5(2.1)	30.6(3.4)	41.8(5.1)
Estimate total weight	1994	54.6(1.5)	57.7(2.1)	51.8(1.5)	58.7(1.5)	40.1(4.7)	46.4(4.4)
	1992	53.6(1.8)	54.9(2.3)	52.2(2.1)	57.9(1.8)	36.8(4.3)	43.8(3.4)
	1990	53.3(1.8)	56.3(2.4)	50.3(2.0)	55.8(2.1)	43.7(4.1)	45.3(5.1)
	1986	50.0(1.4)	51.6(2.1)	48.6(1.9)	53.7(1.6)	34.6(3.3)	36.1(3.5)
	1982	41.0(1.5)	44.9(1.8)	37.4(2.0)	43.0(1.5)	27.4(2.8)	40.7(2.6)
Estimate cost of pencils	1994	89.4(0.7)	90.6(1.0)	88.2(1.2)	91.4(0.9)	82.4(1.9)	85.4(2.2)
	1992	89.9(0.7)	91.3(0.9)	88.4(0.9)	91.6(0.8)	85.0(1.6)	82.7(3.1)
	1990	91.1(0.7)	92.1(0.9)	90.1(0.9)	91.9(0.9)	89.2(1.8)	84.0(3.6)
	1986	89.4(0.7)	89.8(1.2)	89.0(1.1)	91.8(0.7)	77.9(2.7)	85.5(3.8)
	1982	78.6(1.0)	81.8(1.3)	75.7(1.7)	80.8(1.0)	69.0(3.0)	65.9(5.8)
Estimate cost using percent	1994	42.0(1.7)	47.5(1.7)	36.7(2.1)	43.3(2.1)	35.1(3.0)	42.9(3.2)
	1992	44.0(1.2)	47.2(1.5)	40.6(1.9)	45.3(1.5)	36.4(3.2)	47.7(4.3)
	1990	47.0(1.2)	51.8(1.9)	42.2(1.5)	48.1(1.4)	43.1(3.3)	34.2(4.2)
	1986	44.1(1.4)	46.5(1.8)	41.9(1.8)	46.2(1.5)	37.0(3.2)	36.8(3.0)
	1982	44.0(1.6)	48.1(1.9)	40.3(1.9)	45.1(1.6)	35.7(3.6)	44.6(3.3)
Estimate difference in length	1994	78.1(1.3)	80.5(1.3)	76.1(1.9)	80.6(1.2)	66.7(4.5)	76.8(4.9)
	1992	81.8(1.3)	83.0(1.7)	80.6(1.6)	84.7(1.1)	68.5(4.6)	77.4(3.5)
	1990	80.7(1.2)	81.3(1.8)	80.0(1.2)	82.9(1.1)	69.8(4.6)	74.6(8.1)
	1986	82.5(0.9)	82.7(1.3)	82.2(1.1)	86.9(0.8)	65.0(2.1)	66.9(5.5)
	1982	72.6(1.4)	73.9(2.0)	71.3(1.6)	76.2(1.6)	57.0(4.2)	57.4(4.1)
Use deductive reasoning	1994	78.7(1.3)	78.8(1.6)	78.8(1.8)	81.3(1.2)	72.0(3.9)	69.8(6.5)
	1992	78.5(0.9)	77.8(1.4)	79.3(1.0)	81.2(0.9)	68.3(2.8)	67.4(4.8)
	1990	80.2(1.4)	79.2(1.7)	81.3(1.8)	83.6(1.3)	70.6(4.1)	66.0(6.9)
	1986	78.7(0.9)	77.8(1.3)	79.5(1.4)	81.4(1.1)	69.8(4.1)	65.2(3.5)
	1982	81.7(1.0)	80.4(1.8)	82.9(1.2)	83.1(1.1)	74.6(3.2)	75.6(4.0)
	1978	84.1(0.9)	82.7(1.6)	85.4(1.2)	86.3(0.9)	70.8(2.9)	75.2(5.6)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Determine age relationship	1994	87.8(1.1)	88.7(1.2)	86.8(1.6)	90.1(1.0)	79.8(2.6)	82.3(5.2)
	1992	89.0(0.7)	90.2(1.0)	87.8(1.2)	91.1(0.7)	79.3(2.9)	84.0(2.6)
	1990	86.8(1.0)	86.9(1.4)	86.8(1.0)	89.3(1.0)	79.2(2.6)	72.1(5.4)
	1986	86.3(1.1)	87.6(1.2)	85.1(1.5)	89.4(1.0)	71.8(3.3)	82.3(4.2)
	1982	79.7(1.3)	80.8(1.5)	78.7(1.6)	82.4(1.2)	63.6(3.0)	73.9(4.3)
	1978	82.3(1.2)	81.4(1.6)	83.1(1.2)	85.8(1.1)	60.1(3.7)	72.3(4.2)
Identify valid conclusion	1994	84.3(1.1)	82.3(1.6)	86.7(1.2)	86.6(1.2)	79.2(2.9)	76.8(3.3)
	1992	84.7(1.1)	81.6(1.7)	87.9(1.2)	86.1(1.3)	81.4(2.6)	75.0(3.6)
	1990	81.8(1.0)	79.1(1.6)	84.5(1.3)	83.9(1.0)	78.2(2.9)	70.3(4.5)
	1986	78.3(1.4)	75.8(2.0)	80.7(1.6)	80.9(1.3)	70.4(4.4)	67.0(5.7)
	1982	69.3(1.2)	66.5(1.6)	71.9(1.4)	71.0(1.3)	63.9(4.5)	57.5(3.9)
	1978	72.0(1.4)	70.3(1.7)	73.5(1.9)	72.6(1.4)	69.8(4.2)	62.5(5.4)
Identify valid conclusion	1994	36.0(1.4)	39.6(1.9)	32.2(1.5)	38.3(1.5)	27.6(2.8)	29.3(4.2)
	1992	37.2(1.3)	40.6(2.1)	33.7(1.2)	39.9(1.3)	28.2(3.4)	27.9(4.1)
	1990	38.7(1.4)	40.8(1.9)	36.6(1.7)	41.1(1.6)	26.5(2.3)	36.7(3.4)
	1986	41.9(1.3)	44.8(2.1)	39.3(2.1)	44.1(1.5)	31.6(2.9)	36.8(3.8)
	1982	56.6(1.2)	61.3(1.8)	52.0(1.8)	59.4(1.1)	41.7(3.9)	49.6(3.8)
	1978	58.9(1.2)	63.4(1.6)	54.6(1.9)	60.9(1.3)	48.4(3.9)	53.9(5.0)
Identify false statement	1994	53.2(1.5)	55.5(2.0)	51.2(1.9)	57.0(1.3)	43.1(3.7)	36.8(5.8)
	1992	51.6(1.2)	54.2(1.9)	48.9(1.6)	55.1(1.3)	38.5(4.6)	39.6(3.8)
	1990	51.2(1.5)	51.5(2.1)	50.9(1.8)	55.2(1.5)	39.1(5.4)	32.9(5.5)
	1986	51.0(1.7)	53.1(2.2)	49.0(1.9)	55.1(1.8)	35.7(4.1)	37.0(5.1)
	1982	50.4(1.3)	51.2(1.5)	49.7(2.0)	54.8(1.4)	29.5(3.1)	33.2(3.8)
	1978	52.3(1.7)	53.9(2.1)	50.7(2.4)	56.9(1.6)	29.8(3.2)	25.4(5.5)
Compute using data in table	1994	30.0(1.3)	30.9(1.7)	29.1(1.5)	34.8(1.6)	14.5(2.7)	18.6(4.0)
	1992	33.8(1.3)	33.6(2.2)	34.1(1.0)	37.1(1.5)	18.4(3.1)	24.2(2.4)
	1990	32.2(1.7)	34.8(2.5)	29.5(1.8)	36.6(1.7)	16.7(2.9)	14.1(5.8)
	1986	34.6(1.4)	34.6(2.3)	34.5(1.7)	39.7(1.6)	17.2(2.7)	15.6(4.9)
	1982	43.5(1.6)	45.5(1.8)	41.6(2.2)	48.2(1.7)	21.6(4.6)	23.8(3.9)
	1978	50.9(1.4)	49.3(2.0)	52.6(1.8)	55.7(1.6)	28.5(4.1)	19.8(5.3)
Interpret data in table	1994	68.5(1.5)	72.5(2.3)	64.9(2.0)	75.7(1.5)	45.0(3.6)	54.9(5.3)
	1992	70.7(1.7)	74.5(2.0)	66.7(1.8)	75.7(1.6)	46.0(4.1)	65.3(5.7)
	1990	70.2(1.5)	71.9(2.0)	68.5(1.5)	75.3(1.4)	49.3(4.7)	56.0(XXX)
	1986	65.4(1.5)	69.0(2.2)	62.2(1.9)	71.7(1.9)	38.4(2.7)	53.9(3.8)
	1982	66.4(1.4)	70.2(1.6)	62.6(2.0)	72.5(1.2)	33.6(3.7)	46.5(4.5)
	1978	66.0(1.3)	69.5(1.6)	62.9(2.0)	71.4(1.2)	34.2(4.1)	45.4(6.5)
Read line graph	1994	88.0(0.9)	90.1(0.8)	86.3(1.6)	90.6(1.2)	81.5(2.0)	81.0(3.3)
	1992	90.4(0.7)	90.9(1.0)	89.9(0.9)	91.4(0.7)	87.3(2.1)	84.6(3.0)
	1990	89.3(0.8)	90.4(1.1)	88.1(1.1)	90.8(0.8)	83.7(2.7)	86.6(3.2)
	1986	86.8(1.0)	88.3(1.5)	85.5(1.1)	91.0(0.9)	69.9(3.4)	75.4(3.8)
	1982	86.7(1.0)	89.1(1.3)	84.5(1.2)	90.2(0.9)	71.1(2.4)	70.8(4.4)
	1978	80.4(1.2)	82.7(1.4)	78.1(1.7)	83.2(1.5)	62.9(3.1)	67.8(7.0)

The standard errors of the estimated percentages appear in parenthesis.
XXX The standard error exceeds 10.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Interpret line graph	1994	79.9(1.2)	82.3(1.4)	77.7(1.7)	83.3(1.4)	62.9(4.0)	80.2(4.6)
	1992	78.6(1.6)	79.1(2.1)	78.1(1.8)	81.2(1.3)	64.6(4.3)	76.5(4.5)
	1990	79.2(1.0)	79.9(1.7)	78.6(1.2)	83.3(1.0)	65.1(3.3)	66.7(9.2)
	1986	76.3(1.3)	77.1(2.0)	75.6(1.7)	80.3(1.4)	61.1(3.5)	64.7(5.1)
	1982	77.3(1.5)	78.6(1.9)	76.0(1.7)	80.9(1.3)	62.5(3.4)	56.3(5.4)
	1978	69.9(1.1)	74.3(1.3)	65.4(1.9)	72.1(1.2)	52.4(2.2)	69.4(4.1)
Solve multi-step problem	1994	24.0(1.1)	31.8(1.8)	16.3(0.9)	28.8(1.3)	4.2(1.7)	17.9(5.2)
	1992	26.7(1.1)	32.1(1.6)	20.9(1.2)	31.0(1.1)	10.5(2.4)	11.2(4.2)
	1990	26.3(1.4)	31.5(2.0)	21.0(1.5)	30.6(1.4)	10.1(3.2)	8.5(4.2)
	1986	26.9(1.5)	32.3(2.1)	21.9(1.6)	31.3(1.7)	8.8(2.6)	13.3(3.1)
	1982	27.1(1.5)	30.9(2.0)	23.4(2.2)	31.4(1.5)	6.4(1.9)	13.0(4.2)
	1978	29.6(1.2)	36.7(1.9)	22.9(1.3)	33.4(1.3)	7.2(2.1)	16.3(4.9)
Solve multi-step problem	1994	32.9(1.7)	39.0(2.2)	27.2(2.0)	39.9(1.9)	8.7(1.6)	15.0(3.2)
	1992	32.8(1.2)	41.2(1.8)	24.3(1.3)	39.0(1.5)	10.1(3.2)	19.8(5.2)
	1990	31.7(1.5)	37.1(1.8)	26.9(1.9)	38.8(1.4)	7.6(1.3)	14.7(2.5)
	1986	33.1(1.7)	40.7(2.1)	25.2(2.2)	37.5(1.6)	12.8(2.4)	17.4(3.3)
	1982	25.8(1.1)	30.4(2.0)	21.5(1.6)	29.3(1.3)	8.6(1.8)	12.2(1.8)
	1978	30.2(1.5)	39.2(2.3)	21.6(1.4)	34.2(1.8)	7.5(1.6)	11.7(4.3)
Solve money problem	1994	75.1(1.4)	75.5(2.0)	74.7(2.0)	79.8(1.4)	59.3(3.7)	61.3(5.1)
	1992	70.7(1.4)	71.0(2.1)	70.4(1.7)	75.3(1.6)	50.3(3.0)	68.4(4.3)
	1990	68.3(1.5)	66.7(2.2)	69.8(1.8)	74.4(1.2)	48.2(5.0)	51.6(6.9)
	1986	67.7(1.6)	67.7(2.5)	67.7(1.5)	73.0(1.4)	42.2(4.1)	58.9(5.1)
	1982	67.0(1.0)	65.0(1.6)	68.8(1.4)	71.0(1.1)	48.4(2.7)	48.9(6.1)
	1978	68.5(1.5)	69.4(2.1)	67.6(1.8)	71.8(1.4)	44.1(3.9)	57.1(5.4)
Identify algebraic identity	1994	66.1(1.4)	63.7(2.0)	68.6(1.6)	69.9(1.5)	53.4(4.7)	53.3(5.6)
	1992	67.1(1.1)	65.3(1.5)	69.0(1.4)	71.0(1.4)	52.0(4.3)	50.7(3.9)
	1990	64.8(1.9)	64.1(2.5)	65.4(1.8)	68.6(1.8)	50.7(5.3)	48.8(XXX)
	1986	63.8(1.5)	63.7(1.7)	63.9(2.4)	68.5(1.3)	44.1(4.1)	42.9(5.1)
	1982	64.2(1.9)	63.2(2.4)	65.1(2.1)	69.8(1.6)	42.4(3.5)	26.9(4.9)
	1978	69.0(1.8)	69.6(1.9)	68.5(2.3)	73.5(1.8)	43.4(2.4)	46.3(5.7)
Relate meter to yard	1994	73.9(1.8)	80.3(1.7)	67.8(2.5)	80.9(1.6)	51.3(4.5)	57.4(5.0)
	1992	70.6(1.6)	76.7(1.9)	64.6(2.1)	76.9(1.4)	43.5(2.4)	71.5(4.8)
	1990	67.2(1.7)	75.2(1.7)	60.1(2.3)	74.3(1.5)	42.3(4.4)	53.6(3.9)
	1986	69.3(1.4)	77.4(1.5)	61.1(2.0)	73.3(1.4)	45.5(3.6)	70.9(7.9)
	1982	71.6(1.4)	79.1(1.9)	64.3(1.6)	76.2(1.4)	47.4(3.1)	57.2(4.2)
	1978	71.4(1.6)	78.7(1.8)	64.8(2.3)	75.8(1.3)	43.9(2.9)	58.3(7.3)
Estimate height of door	1994	81.0(1.0)	87.9(1.6)	74.1(1.6)	85.7(1.0)	62.2(2.9)	77.6(6.0)
	1992	86.3(0.8)	90.9(0.9)	81.5(1.1)	89.2(0.8)	71.5(3.3)	83.4(2.8)
	1990	84.3(1.1)	89.2(1.5)	79.2(1.4)	88.0(1.1)	75.0(2.8)	66.7(7.5)
	1986	82.3(1.4)	89.8(1.2)	75.4(2.0)	85.0(1.6)	71.9(3.6)	71.7(3.9)
	1982	82.5(1.0)	89.6(1.3)	75.9(1.6)	85.9(0.9)	62.8(2.9)	78.7(3.3)
	1978	86.4(1.0)	92.0(1.1)	81.5(1.4)	89.4(1.0)	69.3(2.9)	78.1(6.0)

The standard errors of the estimated percentages appear in parenthesis.
XXX The standard error exceeds 10.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Solve multi-step problem	1994	27.9(1.6)	28.4(2.3)	27.4(1.7)	32.1(1.8)	14.0(2.4)	19.0(4.2)
	1992	31.9(1.2)	34.6(1.9)	29.2(1.5)	36.4(1.4)	15.4(4.0)	22.1(3.5)
	1990	30.9(1.5)	33.6(1.8)	28.5(1.8)	36.8(1.5)	13.7(2.6)	15.2(2.8)
	1986	26.4(1.8)	27.3(2.2)	25.5(2.3)	28.7(2.2)	13.1(2.8)	17.7(3.6)
	1982	25.1(1.5)	26.6(1.5)	23.7(2.1)	28.2(1.6)	9.9(2.2)	13.5(3.9)
	1978	29.0(1.5)	30.1(1.7)	28.0(1.7)	32.4(1.6)	7.2(1.9)	21.1(4.5)
Estimate circumference	1994	22.3(1.7)	25.2(2.3)	19.5(2.0)	25.6(2.2)	10.1(2.0)	12.8(2.3)
	1992	23.5(1.3)	26.5(1.9)	20.4(1.7)	26.3(1.4)	10.3(2.3)	14.5(2.7)
	1990	23.7(1.6)	27.8(1.7)	19.5(1.8)	26.1(1.8)	13.7(3.4)	14.5(4.7)
	1986	19.9(1.1)	23.0(1.5)	17.0(1.8)	22.9(1.4)	6.7(1.5)	14.0(4.1)
	1982	16.9(1.3)	20.4(2.1)	13.4(1.5)	19.3(1.5)	5.6(1.5)	5.6(3.6)
	1978	22.5(1.4)	27.1(2.2)	17.9(1.5)	24.7(1.5)	10.5(2.7)	12.0(4.1)
Find area given perimeter	1994	45.6(2.0)	47.1(2.6)	44.1(2.1)	49.7(2.4)	23.4(2.6)	47.2(8.2)
	1992	44.6(1.4)	46.8(1.5)	42.3(1.9)	47.8(1.5)	33.1(3.2)	30.2(3.6)
	1990	43.1(2.2)	44.5(2.8)	41.7(2.4)	46.5(2.3)	29.3(6.0)	27.1(5.2)
	1986	38.7(1.7)	39.4(2.2)	38.0(2.1)	42.0(1.8)	21.2(4.5)	23.8(3.4)
	1982	34.0(2.1)	36.1(2.7)	32.0(2.3)	37.2(2.4)	17.7(2.4)	19.6(3.2)
	1978	32.3(1.7)	37.8(2.6)	27.3(2.0)	34.3(1.8)	19.6(3.1)	22.4(5.0)
Find area of rectangle	1994	69.8(1.6)	71.7(2.1)	68.2(2.0)	72.9(1.9)	52.8(3.8)	66.9(4.4)
	1992	68.9(1.6)	70.1(2.6)	67.7(1.5)	72.5(1.6)	47.9(4.0)	68.3(4.1)
	1990	66.4(1.7)	68.9(2.2)	63.9(1.8)	69.1(1.7)	55.7(3.7)	54.2(XXX)
	1986	62.7(1.7)	63.4(2.1)	62.0(2.0)	65.7(2.0)	49.8(4.8)	50.6(4.0)
	1982	73.9(1.5)	75.3(2.1)	72.7(1.6)	76.3(1.7)	60.5(4.4)	68.3(4.0)
	1978	73.4(1.8)	73.8(2.6)	73.0(1.7)	78.3(1.7)	43.5(3.5)	65.4(6.4)
Apply vertical angles	1994	93.0(0.8)	92.9(1.0)	93.3(1.0)	95.2(0.6)	83.5(3.9)	93.8(2.7)
	1992	91.1(0.8)	92.3(0.8)	89.8(1.0)	92.9(0.7)	84.7(3.1)	84.8(3.6)
	1990	89.6(0.9)	89.6(1.3)	89.6(1.1)	92.0(0.7)	79.7(3.5)	82.6(4.7)
	1986	88.0(1.2)	89.1(1.6)	87.0(1.4)	90.4(1.1)	78.0(3.1)	76.6(5.9)
	1982	85.1(1.1)	86.1(1.3)	84.3(1.9)	87.7(1.3)	74.9(2.1)	68.5(4.5)
	1978	81.5(1.2)	80.9(1.5)	82.0(1.5)	85.3(1.1)	59.9(4.8)	60.0(4.8)
Apply supplementary angles	1994	57.8(1.3)	61.4(2.2)	54.3(1.7)	63.3(1.1)	36.6(4.0)	47.7(6.6)
	1992	55.9(1.5)	57.3(1.9)	54.4(1.6)	61.3(1.4)	30.9(3.5)	41.2(3.7)
	1990	55.2(1.9)	58.6(2.6)	51.7(1.9)	60.0(2.1)	37.2(5.9)	34.9(3.6)
	1986	48.0(1.9)	50.8(2.2)	45.4(2.2)	53.9(2.0)	24.4(3.0)	25.7(4.4)
	1982	40.0(2.6)	42.6(2.8)	37.6(2.8)	45.5(2.7)	13.3(2.3)	13.2(3.6)
	1978	39.7(1.6)	42.7(2.1)	36.6(2.4)	43.7(1.6)	15.5(4.2)	15.1(3.7)
Identify sign of divisor	1994	65.1(1.5)	63.7(2.1)	66.3(2.0)	70.5(1.3)	49.4(4.0)	46.3(7.3)
	1992	64.5(1.5)	65.7(2.0)	63.3(2.0)	67.7(1.6)	49.2(5.4)	58.0(5.2)
	1990	60.3(1.5)	60.5(1.7)	60.1(1.9)	64.8(1.4)	45.0(5.5)	51.6(4.2)
	1986	58.6(2.2)	61.6(3.1)	55.6(2.0)	62.2(2.4)	38.6(4.3)	50.6(7.2)
	1982	59.4(1.9)	61.2(2.6)	57.8(2.2)	61.5(2.0)	44.7(4.4)	58.6(5.9)
	1978	56.5(1.5)	57.9(2.3)	55.3(1.6)	58.7(1.5)	45.9(3.6)	43.0(7.2)

The standard errors of the estimated percentages appear in parenthesis.
XXX The standard error exceeds 10.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Add whole numbers	1994	97.6(0.4)	97.9(0.5)	97.3(0.6)	98.0(0.4)	96.1(1.4)	98.2(1.1)
	1992	98.6(0.3)	98.3(0.5)	99.0(0.3)	99.0(0.3)	96.9(1.2)	98.7(0.9)
	1990	97.9(0.3)	97.5(0.4)	98.2(0.4)	98.3(0.3)	96.7(1.4)	96.9(1.5)
	1986	98.6(0.5)	98.7(0.5)	98.4(0.6)	99.3(0.2)	95.1(3.6)	96.3(1.8)
	1982	98.1(0.4)	97.8(0.5)	98.3(0.4)	97.9(0.4)	99.2(0.6)	98.3(1.3)
Add whole numbers	1994	97.6(0.4)	97.8(0.5)	97.4(0.6)	98.1(0.4)	97.6(1.1)	93.1(1.8)
	1992	97.9(0.4)	97.2(0.8)	98.7(0.4)	98.3(0.4)	96.2(1.4)	98.8(0.9)
	1990	98.4(0.3)	97.7(0.6)	99.1(0.3)	98.6(0.3)	97.9(1.4)	99.4(0.6)
	1986	98.4(0.4)	98.1(0.5)	98.6(0.6)	98.7(0.3)	96.3(2.2)	98.7(1.4)
	1982	97.7(0.4)	96.6(0.7)	98.8(0.4)	97.8(0.5)	97.6(0.9)	97.1(1.4)
Add whole numbers	1994	94.7(0.5)	94.2(0.8)	95.2(0.6)	95.8(0.5)	91.9(1.5)	89.5(3.1)
	1992	94.3(0.5)	93.8(0.9)	94.8(0.8)	95.6(0.6)	91.2(1.7)	88.9(3.0)
	1990	95.4(0.5)	94.2(0.9)	96.5(0.5)	96.2(0.5)	95.4(1.1)	90.5(2.4)
	1986	94.7(0.8)	93.6(1.3)	95.9(0.8)	96.0(0.7)	91.6(3.0)	89.0(3.7)
	1982	92.6(0.7)	90.1(1.3)	95.0(0.7)	93.7(0.6)	88.2(2.4)	87.3(3.1)
Multiply fractions	1994	71.9(1.5)	71.4(2.0)	72.5(1.7)	74.5(1.7)	63.2(3.9)	64.2(4.1)
	1992	74.6(1.2)	71.2(2.0)	78.1(1.5)	76.6(1.3)	65.2(3.5)	64.2(4.0)
	1990	76.7(1.5)	73.9(1.8)	79.6(1.6)	77.7(1.7)	73.5(2.5)	65.3(9.6)
	1986	75.1(1.2)	72.9(1.5)	77.2(1.7)	78.0(1.3)	66.1(3.0)	57.6(5.7)
	1982	71.6(1.4)	71.3(1.6)	71.8(1.9)	74.8(1.3)	58.2(1.9)	46.8(5.2)
	1978	75.0(1.3)	71.8(1.8)	78.1(1.7)	78.1(1.2)	58.9(4.0)	53.7(5.2)
Multiply fractions	1994	62.1(1.4)	62.8(1.8)	61.9(1.8)	65.2(1.8)	50.5(4.4)	54.3(5.0)
	1992	68.1(1.2)	66.0(1.8)	70.4(1.4)	70.9(1.4)	56.3(5.0)	55.5(4.5)
	1990	72.6(1.6)	70.7(1.8)	74.5(2.0)	73.5(1.8)	69.3(2.5)	60.9(9.8)
	1986	67.4(1.6)	63.6(1.9)	70.8(2.0)	69.5(1.7)	57.0(4.3)	57.6(5.0)
	1982	59.7(1.8)	60.2(2.0)	59.3(2.4)	63.9(1.7)	40.2(2.8)	33.3(5.1)
	1978	66.9(1.7)	66.3(2.1)	67.4(2.0)	70.9(1.5)	40.8(4.0)	53.5(5.7)
Multiply fractions	1994	71.2(1.4)	71.1(2.1)	71.6(1.5)	74.4(1.7)	59.5(3.8)	64.2(2.7)
	1992	74.4(1.1)	72.0(1.6)	76.9(1.7)	77.0(1.2)	62.4(3.8)	63.1(3.4)
	1990	78.2(1.3)	76.4(1.4)	80.0(1.6)	79.1(1.3)	76.8(2.2)	63.4(9.3)
	1986	75.4(1.3)	73.4(1.9)	77.2(1.6)	76.7(1.6)	69.9(2.9)	68.5(6.9)
	1982	69.4(1.7)	68.1(1.9)	70.7(2.0)	72.5(1.7)	53.4(2.7)	50.5(4.4)
	1978	75.8(1.4)	73.8(2.0)	77.7(1.8)	78.4(1.2)	60.2(4.5)	60.8(7.1)
Find percent given numbers	1994	73.7(1.5)	79.2(1.5)	68.4(2.1)	79.0(1.6)	55.9(2.3)	61.4(6.8)
	1992	76.0(1.4)	83.6(1.4)	68.0(1.9)	80.2(1.1)	63.2(3.5)	56.5(4.9)
	1990	72.9(1.6)	79.3(1.8)	66.3(1.9)	77.0(1.8)	58.7(5.3)	54.6(5.9)
	1986	72.5(1.6)	79.9(1.6)	65.6(2.2)	77.7(1.7)	52.9(3.5)	53.2(4.6)
	1982	74.3(1.5)	80.7(2.0)	68.4(2.1)	78.6(1.2)	45.6(3.1)	71.8(4.3)
Find percent of number	1994	66.9(1.3)	70.8(2.2)	63.0(1.9)	72.9(1.1)	48.4(3.9)	51.1(4.9)
	1992	69.9(1.1)	75.5(1.6)	64.1(1.6)	74.8(1.1)	48.7(3.6)	58.2(4.2)
	1990	68.9(1.2)	71.5(1.8)	66.3(1.6)	71.9(1.4)	57.3(4.5)	55.9(8.3)
	1986	63.9(1.3)	68.4(2.0)	59.8(1.4)	67.6(1.4)	43.6(3.5)	60.2(4.7)
	1982	54.1(1.9)	57.4(2.9)	51.1(2.2)	56.7(2.1)	36.4(2.7)	50.4(4.9)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Find percent greater than 100	1994	60.7(2.1)	68.8(2.4)	52.9(2.4)	67.2(1.8)	36.8(4.9)	51.8(8.4)
	1992	63.7(0.9)	70.4(1.5)	56.7(1.6)	68.6(1.2)	41.6(3.9)	52.8(4.7)
	1990	63.3(1.8)	67.1(2.4)	59.5(1.9)	67.8(2.1)	46.2(4.6)	45.3(5.8)
	1986	56.3(1.4)	62.2(1.9)	50.8(1.7)	61.0(1.4)	34.0(3.2)	39.8(6.1)
	1982	46.4(2.6)	50.6(2.9)	42.5(2.7)	50.3(3.0)	22.5(2.9)	40.6(3.3)
Find number given percent	1994	39.2(1.4)	44.9(1.9)	33.4(2.0)	44.7(1.7)	22.0(2.8)	26.1(3.0)
	1992	39.7(1.5)	43.4(2.0)	35.8(1.8)	41.7(1.7)	33.1(3.7)	29.1(4.3)
	1990	37.6(1.3)	40.6(2.0)	34.6(1.7)	40.6(1.6)	21.1(2.1)	33.2(3.5)
	1986	32.0(1.2)	38.4(1.9)	26.0(1.2)	34.4(1.5)	19.7(2.6)	30.0(5.0)
	1982	36.4(2.1)	40.8(2.8)	32.4(2.1)	38.3(2.5)	24.5(2.4)	34.9(4.7)
Find percent given numbers	1994	69.0(1.6)	77.6(1.7)	60.9(1.9)	75.5(1.6)	46.1(3.5)	51.5(5.1)
	1992	66.4(1.4)	74.5(1.4)	58.2(2.0)	72.3(1.5)	46.3(3.7)	52.9(4.0)
	1990	62.9(1.5)	70.9(1.6)	55.8(1.8)	69.2(1.3)	43.6(3.6)	44.8(3.2)
	1986	63.4(1.7)	71.0(2.1)	55.6(1.9)	69.9(1.5)	35.7(4.1)	47.1(5.7)
	1982	60.3(1.4)	69.1(2.1)	52.2(2.1)	65.1(1.6)	32.5(2.6)	48.7(3.4)
Find percent of number	1994	65.9(1.6)	65.8(2.4)	65.8(1.8)	70.1(1.6)	51.4(3.9)	52.5(5.1)
	1992	66.8(1.5)	70.5(1.9)	63.1(1.8)	71.0(1.4)	49.0(4.2)	66.0(7.1)
	1990	63.1(1.7)	66.6(2.2)	59.9(2.1)	68.5(1.5)	45.9(4.7)	49.1(4.8)
	1986	63.7(1.9)	68.5(2.6)	58.7(2.1)	67.8(1.9)	43.5(4.3)	57.2(6.7)
	1982	55.5(1.8)	56.0(2.2)	55.1(2.5)	58.4(1.8)	40.1(3.7)	45.7(7.1)
Find percent greater than 100	1994	61.9(2.1)	65.7(2.4)	58.4(2.5)	68.5(2.2)	42.9(4.4)	36.3(5.2)
	1992	60.0(1.5)	67.0(1.9)	52.9(2.2)	65.9(1.3)	36.8(4.5)	51.2(5.6)
	1990	58.8(1.7)	65.6(1.8)	52.7(2.3)	65.5(1.5)	36.4(4.8)	42.9(6.7)
	1986	56.9(2.2)	62.7(3.0)	51.0(2.2)	61.8(2.1)	33.7(5.5)	44.5(8.5)
	1982	49.8(1.8)	54.8(2.8)	45.2(2.5)	53.4(1.9)	33.2(3.9)	33.1(4.4)
Find percent given numbers	1994	50.8(1.9)	54.5(2.7)	47.3(2.6)	55.0(2.2)	37.9(3.8)	32.9(3.7)
	1992	50.4(1.7)	54.4(2.0)	46.4(2.2)	53.8(1.7)	34.8(3.6)	44.9(4.6)
	1990	45.4(1.4)	50.2(2.0)	41.2(2.1)	50.2(1.4)	30.2(4.3)	27.6(4.8)
	1986	42.9(1.9)	48.5(3.1)	37.1(2.0)	46.2(2.0)	28.2(3.7)	30.6(4.9)
	1982	34.7(0.9)	40.5(1.4)	29.4(1.6)	36.4(1.1)	23.3(2.1)	29.6(2.4)
Find number given percent	1994	55.6(1.9)	57.2(2.5)	54.0(2.5)	61.6(2.0)	36.7(3.9)	35.7(5.1)
	1992	52.5(1.6)	56.5(2.0)	48.4(1.9)	57.2(2.0)	32.6(3.2)	45.9(4.9)
	1990	49.4(1.6)	53.0(1.9)	46.2(2.1)	54.5(1.4)	31.6(6.1)	39.8(4.6)
	1986	44.1(1.8)	47.0(2.8)	41.1(1.7)	48.8(1.8)	21.7(2.6)	33.2(6.6)
	1982	29.5(1.7)	32.6(2.2)	26.6(2.2)	32.3(2.0)	16.4(1.9)	15.0(3.5)
Subtract decimals	1994	69.0(1.5)	68.6(2.5)	69.9(1.7)	72.1(1.6)	52.7(4.2)	66.5(5.2)
	1992	74.3(1.2)	71.6(1.7)	77.0(1.5)	77.6(0.9)	61.2(3.7)	62.2(5.7)
	1990	74.0(1.5)	71.8(1.9)	76.3(1.7)	75.6(1.6)	66.3(2.5)	66.0(9.5)
	1986	72.2(1.1)	69.0(1.6)	75.2(1.6)	74.7(1.4)	61.3(3.7)	64.8(4.3)
	1982	73.8(1.3)	74.3(1.7)	73.3(1.7)	77.6(1.2)	52.9(4.2)	58.4(4.2)
	1978	71.0(1.8)	69.2(1.9)	72.7(2.0)	74.9(1.6)	46.8(3.7)	55.5(6.2)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Subtract decimals	1994	85.6(1.1)	86.6(1.2)	84.7(1.5)	86.9(1.2)	80.5(2.2)	84.9(3.9)
	1992	86.4(0.7)	87.5(1.2)	85.3(1.3)	88.0(1.0)	81.0(3.0)	87.0(3.0)
	1990	86.9(0.8)	87.8(1.2)	86.1(1.2)	88.0(0.9)	80.7(2.2)	88.2(2.8)
	1986	85.9(1.0)	85.1(1.5)	86.6(1.5)	88.1(1.2)	76.1(3.1)	79.4(3.8)
	1982	84.7(1.1)	84.6(1.5)	84.8(1.3)	86.6(1.3)	76.0(3.0)	75.6(3.1)
	1978	86.3(1.0)	86.5(1.4)	86.1(1.6)	87.4(1.1)	77.4(2.5)	89.6(6.9)
Divide decimals	1994	75.7(1.2)	73.2(1.6)	77.9(1.4)	79.1(1.4)	67.4(3.8)	59.1(5.5)
	1992	78.9(1.2)	77.0(1.7)	80.9(1.6)	83.5(1.0)	59.0(4.5)	76.9(3.3)
	1990	78.6(1.5)	75.9(1.9)	81.0(1.6)	83.8(1.0)	61.1(4.8)	66.6(4.6)
	1986	77.6(1.2)	76.0(1.8)	79.2(1.6)	84.5(1.0)	48.4(5.2)	55.5(5.5)
	1982	65.1(2.1)	62.4(2.9)	67.7(1.9)	70.2(2.5)	41.8(3.8)	41.6(2.5)
	1978	77.9(1.5)	77.2(1.7)	78.7(2.1)	81.8(1.4)	50.8(4.1)	71.1(6.0)
Add decimals	1994	88.4(0.9)	86.2(1.5)	90.5(1.1)	91.8(0.7)	74.9(3.2)	83.1(3.5)
	1992	89.5(1.0)	87.5(1.3)	91.5(1.2)	93.1(0.9)	76.5(2.8)	81.4(7.1)
	1990	89.8(1.0)	87.3(1.5)	92.1(1.0)	93.2(0.7)	79.2(3.0)	81.5(3.8)
	1986	88.4(1.3)	85.2(2.2)	91.7(0.9)	92.2(1.1)	69.0(4.4)	84.6(2.7)
	1982	86.0(1.0)	82.5(1.5)	89.2(1.1)	89.0(1.3)	72.1(3.8)	71.9(4.4)
	1978	88.8(1.1)	87.6(1.5)	90.1(1.3)	91.9(0.8)	68.0(4.1)	82.6(4.6)
Divide decimals	1994	81.0(1.4)	79.1(1.7)	82.8(1.7)	83.7(1.4)	69.7(3.7)	74.0(3.9)
	1992	78.7(1.4)	77.0(1.9)	80.4(1.7)	83.2(1.6)	60.4(3.9)	74.8(4.9)
	1990	77.7(1.3)	74.6(1.6)	80.4(1.6)	82.2(1.1)	62.7(3.3)	67.4(3.7)
	1986	74.9(2.1)	71.3(3.2)	78.6(1.5)	80.4(2.2)	47.1(4.9)	67.9(2.8)
	1982	70.7(1.4)	63.6(1.6)	77.2(1.9)	74.7(1.6)	53.9(5.6)	49.3(4.5)
	1978	80.1(1.3)	77.7(1.9)	82.5(1.6)	83.5(1.3)	56.6(3.7)	76.0(5.0)
Subtract decimals	1994	75.0(1.7)	72.9(1.9)	76.9(2.1)	78.9(1.6)	61.6(4.3)	62.3(5.7)
	1992	74.2(1.6)	73.7(2.3)	74.7(1.4)	78.9(1.6)	56.0(6.0)	69.6(3.7)
	1990	76.5(1.3)	73.8(1.8)	78.9(1.5)	80.1(1.4)	68.2(3.9)	63.1(4.1)
	1986	74.7(1.9)	71.9(2.6)	77.5(1.9)	78.9(2.0)	55.4(5.6)	69.1(4.0)
	1982	57.5(2.4)	48.6(2.7)	65.7(2.3)	62.1(2.9)	38.5(3.1)	30.3(4.4)
	1978	70.9(1.6)	67.4(2.1)	74.2(2.0)	75.9(1.6)	41.1(3.9)	53.8(9.0)
Divide decimals	1994	67.7(1.8)	66.4(2.2)	68.8(2.0)	71.0(1.9)	53.1(3.9)	62.8(4.6)
	1992	65.7(2.0)	62.7(2.3)	68.7(2.1)	70.4(2.2)	48.7(5.6)	60.2(4.1)
	1990	66.3(1.6)	63.6(1.8)	68.8(1.8)	71.1(1.6)	54.3(5.1)	51.3(4.7)
	1986	64.7(2.3)	61.2(3.2)	68.4(2.3)	69.3(2.4)	42.6(4.8)	59.3(5.5)
	1982	44.9(1.5)	36.7(2.0)	52.5(2.0)	48.4(1.8)	28.4(3.7)	27.4(5.1)
	1978	61.4(1.7)	57.4(2.4)	65.3(2.1)	65.8(1.6)	35.8(3.7)	51.9(4.6)
Estimate total cost	1994	32.8(1.6)	37.8(2.1)	27.8(1.6)	34.8(2.0)	20.8(3.1)	35.4(4.3)
	1992	33.9(1.3)	41.1(2.0)	26.3(1.3)	37.0(1.5)	20.9(3.8)	28.9(2.8)
	1990	37.4(1.3)	42.1(1.6)	32.6(1.9)	40.9(1.5)	22.5(2.2)	30.6(4.6)
	1986	35.5(1.5)	41.6(2.0)	29.9(1.7)	36.7(1.6)	28.0(3.5)	34.8(5.1)
	1982	29.6(1.5)	34.1(2.1)	25.5(1.6)	30.9(1.7)	21.1(3.1)	26.3(3.6)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Multiply equation by constant	1994	17.2(1.1)	20.5(2.0)	14.0(1.2)	18.9(1.4)	8.6(1.8)	12.5(1.8)
	1992	18.4(1.1)	21.7(1.5)	15.0(1.2)	19.7(1.1)	10.7(2.1)	11.7(3.7)
	1990	18.4(1.2)	22.1(1.8)	14.7(1.6)	18.7(1.2)	15.8(3.3)	9.7(3.0)
	1986	17.3(1.2)	19.3(1.6)	15.5(1.4)	18.3(1.4)	11.3(2.4)	14.7(3.5)
	1982	21.8(1.7)	23.9(2.2)	19.9(1.7)	22.6(2.1)	15.8(2.8)	21.7(3.3)
	1978	20.1(1.1)	25.0(1.7)	15.2(1.3)	22.4(1.2)	6.5(1.8)	7.3(2.1)
Solve equation (square root)	1994	58.0(1.8)	60.7(2.1)	55.3(2.4)	64.5(1.7)	36.3(4.3)	36.0(4.9)
	1992	58.4(1.7)	59.6(2.1)	57.1(2.0)	64.6(1.8)	33.7(4.9)	46.8(6.3)
	1990	53.3(1.8)	53.7(2.3)	52.9(2.1)	60.4(1.6)	31.5(4.7)	31.6(4.3)
	1986	51.2(1.8)	53.2(2.5)	49.1(2.3)	57.1(1.8)	24.0(4.3)	33.3(4.6)
	1982	45.7(2.6)	45.7(4.0)	45.8(2.1)	49.7(3.3)	27.1(3.4)	26.9(6.1)
	1978	36.8(2.0)	37.2(2.5)	36.3(2.2)	39.3(2.2)	16.6(3.4)	34.8(5.1)
Identify expected value	1994	63.6(1.6)	69.8(2.2)	57.4(1.7)	69.6(1.5)	42.9(2.6)	54.3(6.0)
	1992	63.7(1.4)	70.7(1.8)	56.4(1.8)	67.7(1.4)	47.4(3.6)	55.2(4.5)
	1990	62.6(1.7)	69.3(2.2)	56.0(1.8)	67.7(1.5)	44.2(3.8)	51.1(9.0)
	1986	61.2(1.6)	68.5(2.1)	54.4(1.9)	65.6(1.7)	45.9(3.9)	50.8(5.4)
	1982	78.8(1.5)	83.1(1.3)	74.7(2.5)	83.2(1.5)	59.2(3.8)	61.5(3.6)
	1978	73.6(1.5)	77.3(2.2)	69.9(1.8)	76.6(1.6)	56.5(3.4)	66.2(5.8)
Compute using data in table	1994	81.2(1.1)	83.2(1.6)	79.7(1.7)	84.5(1.0)	68.2(3.8)	76.2(5.1)
	1992	81.6(0.8)	83.4(1.1)	79.7(1.0)	84.5(0.8)	73.2(2.5)	69.9(4.2)
	1990	78.8(1.2)	79.9(1.5)	77.6(1.6)	80.0(1.4)	73.3(3.5)	70.4(6.3)
	1986	75.1(1.3)	77.3(1.5)	73.1(1.4)	78.6(1.3)	59.4(3.1)	68.0(5.7)
	1982	80.0(1.4)	80.0(1.8)	80.1(1.7)	84.2(1.1)	58.4(3.5)	65.8(3.6)
	1978	77.8(1.2)	78.2(1.5)	77.3(1.5)	81.2(1.1)	58.8(3.2)	66.7(6.4)
Interpret data in table	1994	88.5(0.9)	91.5(1.1)	85.7(1.3)	92.4(0.8)	77.9(3.3)	77.1(5.2)
	1992	88.0(0.8)	88.4(1.0)	87.6(1.4)	91.9(0.6)	73.3(3.0)	75.6(4.3)
	1990	88.6(1.0)	88.7(1.2)	88.5(1.3)	91.6(1.0)	80.5(3.4)	70.4(6.9)
	1986	87.9(1.1)	90.0(1.4)	85.9(1.3)	91.1(1.2)	76.0(2.8)	76.9(2.7)
	1982	87.8(1.0)	89.6(1.1)	86.2(1.6)	91.4(0.8)	70.4(3.5)	74.6(4.3)
	1978	87.4(1.3)	88.7(1.2)	86.0(1.8)	91.7(0.9)	62.8(3.8)	70.7(4.9)
Understand decimal place value	1994	76.9(1.4)	78.1(1.9)	76.0(1.7)	83.1(1.2)	53.7(3.4)	64.7(5.9)
	1992	79.4(1.4)	81.1(1.6)	77.6(1.9)	83.3(1.2)	62.8(4.8)	67.0(5.0)
	1990	76.6(1.4)	78.0(2.1)	75.3(1.5)	81.4(1.7)	58.0(4.3)	61.6(5.0)
	1986	70.5(1.3)	73.1(2.1)	68.2(1.5)	76.6(1.2)	41.8(4.9)	55.5(3.7)
	1982	73.3(1.7)	75.2(1.6)	71.6(2.0)	79.6(1.3)	41.0(3.6)	53.7(3.6)
	1978	73.2(1.8)	73.0(3.0)	73.3(2.0)	78.7(1.9)	41.1(3.6)	57.6(4.3)
Understand decimal place value	1994	75.7(1.2)	77.2(1.7)	74.4(1.9)	82.3(1.1)	54.3(3.4)	59.5(5.1)
	1992	76.4(1.7)	78.0(1.7)	74.8(2.1)	81.1(1.4)	57.9(4.7)	62.8(5.8)
	1990	74.1(1.5)	77.2(2.0)	70.9(1.8)	77.4(1.5)	61.8(5.6)	57.2(8.2)
	1986	69.4(1.7)	71.7(2.1)	67.4(2.1)	74.7(1.5)	48.1(4.9)	51.0(5.4)
	1982	71.6(1.7)	73.7(1.7)	69.7(2.5)	75.9(1.7)	46.7(4.5)	62.6(3.3)
	1978	72.3(2.0)	72.1(2.8)	72.5(2.1)	76.3(2.2)	52.5(4.1)	52.6(7.5)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Mathematics Trend Assessment — Student Questionnaire: Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Divide integers	1994	83.0(1.1)	80.8(1.7)	85.7(1.1)	84.8(1.3)	77.8(3.3)	76.3(3.2)
	1992	82.1(1.1)	79.6(1.6)	84.7(1.3)	83.6(1.3)	76.9(2.9)	73.0(3.3)
	1990	80.8(1.4)	78.2(1.7)	83.4(1.5)	82.2(1.5)	75.7(3.9)	69.9(6.2)
	1986	76.3(1.7)	75.0(2.4)	77.4(1.7)	78.2(1.8)	67.5(3.4)	66.3(6.1)
	1982	68.6(2.1)	70.0(2.4)	67.3(2.6)	71.2(2.5)	55.6(2.8)	55.7(3.7)
	1978	67.1(1.8)	64.5(2.6)	69.8(1.6)	69.3(2.2)	50.5(4.4)	64.5(2.9)
Divide integers	1994	70.3(1.5)	68.0(2.1)	73.1(1.6)	72.6(1.9)	60.5(3.1)	63.9(5.8)
	1992	69.9(1.5)	67.6(1.7)	72.3(1.9)	72.6(1.4)	59.3(4.6)	57.3(5.8)
	1990	67.4(1.6)	66.4(2.1)	68.5(1.8)	69.7(1.7)	59.1(5.8)	52.5(8.1)
	1986	61.6(1.7)	63.6(2.3)	59.8(2.1)	65.6(1.7)	43.8(3.6)	45.0(4.4)
	1982	60.2(2.2)	62.0(2.5)	58.6(2.5)	63.2(2.7)	42.8(3.6)	49.7(3.3)
	1978	56.2(2.2)	55.1(2.8)	57.4(2.0)	59.5(2.5)	36.7(4.0)	46.8(4.8)
Understand opposite of integer	1994	73.4(1.0)	74.0(1.7)	72.7(1.5)	76.5(1.4)	59.6(2.7)	68.8(3.9)
	1992	73.9(1.0)	71.4(1.6)	76.5(1.4)	76.6(1.2)	61.2(4.5)	63.5(2.6)
	1990	72.0(1.8)	70.8(2.4)	73.3(1.9)	74.0(2.2)	63.5(4.9)	64.5(4.0)
	1986	68.0(1.6)	69.4(1.9)	66.7(2.1)	71.6(1.5)	52.1(4.4)	54.6(4.8)
	1982	67.5(2.0)	69.1(2.5)	66.0(2.1)	72.0(1.3)	46.1(4.1)	46.2(XXX)
	1978	72.0(1.6)	72.5(1.8)	71.5(1.9)	75.7(1.8)	50.9(2.8)	53.8(5.3)
Understand opposite of integer	1994	78.0(1.3)	77.2(2.0)	79.4(1.4)	80.9(1.4)	67.2(4.0)	72.3(3.5)
	1992	76.0(1.1)	75.0(1.4)	77.0(1.6)	78.5(1.2)	63.5(3.6)	67.8(3.6)
	1990	73.5(1.5)	72.2(2.1)	74.8(1.7)	76.6(1.7)	62.8(4.4)	60.5(4.4)
	1986	71.2(1.5)	69.6(2.0)	72.7(1.8)	74.3(1.6)	56.7(4.4)	57.1(4.6)
	1982	70.5(1.9)	69.4(2.2)	71.6(2.2)	75.1(1.6)	48.1(3.4)	53.0(6.7)
	1978	71.7(1.7)	70.7(1.6)	72.5(2.2)	75.8(1.7)	48.0(2.7)	51.4(6.3)
Convert decimal to fraction	1994	45.7(1.7)	44.8(2.0)	46.8(2.2)	48.6(1.9)	38.7(4.3)	31.8(4.6)
	1992	46.5(1.6)	44.3(2.1)	48.8(1.8)	49.7(1.7)	32.2(4.7)	34.6(3.3)
	1990	52.9(1.6)	52.3(2.1)	53.5(2.0)	57.1(1.4)	37.8(4.9)	35.0(5.5)
	1986	50.2(2.1)	50.5(2.7)	49.9(2.5)	53.7(2.4)	37.2(2.5)	34.5(5.1)
	1982	59.8(2.3)	58.0(2.2)	61.4(3.0)	65.8(2.3)	33.7(3.2)	30.7(3.7)
	1978	61.7(1.9)	61.4(2.3)	62.1(2.3)	65.3(2.2)	42.9(2.8)	43.0(6.9)
Convert decimal to fraction	1994	28.6(1.9)	32.9(2.7)	24.5(1.9)	33.3(2.2)	13.7(2.4)	19.3(3.3)
	1992	26.6(1.6)	30.4(2.1)	22.7(1.6)	29.8(1.7)	12.5(3.4)	18.7(3.3)
	1990	24.2(2.1)	30.4(2.7)	17.9(2.1)	26.8(2.3)	11.6(5.0)	9.8(2.8)
	1986	19.0(1.9)	24.1(2.6)	14.2(1.9)	21.0(2.2)	11.5(2.5)	9.1(2.8)
	1982	20.4(1.5)	24.8(2.3)	16.3(1.2)	23.1(1.8)	7.1(1.3)	8.9(1.8)
	1978	24.7(1.5)	30.5(2.1)	19.3(1.7)	27.3(1.6)	8.7(2.1)	14.5(3.8)

The standard errors of the estimated percentages appear in parenthesis.
XXX The standard error exceeds 10.

Data Appendix

Reading

NAEP 1994 Reading Trend Assessment — Age 9

Average reading scale scores across assessment years

Weighted percentages and average reading scale scores and jackknifed standard errors

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	100.0(0.0) 207.6(1.0)	100.0(0.0) 210.0(0.7)	100.0(0.0) 215.0(1.0)†	100.0(0.0) 210.9(0.7)†	100.0(0.0) 211.8(1.1)†	100.0(0.0) 209.2(1.2)	100.0(0.0) 210.5(0.9)	100.0(0.0) 211.0(1.2)#	Q
GENDER									
Male	49.8(0.4) 201.2(1.1)*	50.0(0.4) 204.3(0.8)	50.0(0.4) 210.0(1.1)†	49.9(0.5) 207.5(0.8)†	50.3(0.8) 207.5(1.4)†	50.8(0.9) 204.0(1.7)	50.8(0.7) 205.9(1.3)†	49.8(0.8) 207.3(1.3)#	LQ
Female	50.2(0.4) 213.9(1.0)	50.0(0.4) 215.8(0.8)	50.0(0.4) 220.1(1.1)†*	50.1(0.5) 214.2(0.8)	49.7(0.8) 216.3(1.3)	49.2(0.9) 214.5(1.2)	49.2(0.7) 215.4(0.9)	50.2(0.8) 214.7(1.4)	Q
RACE/ETHNICITY									
White	84.3(1.4)* 214.0(0.9)	80.0(1.2)* 216.6(0.7)	79.0(1.3)† 221.3(0.8)†	74.9(1.2)† 218.2(0.8)†	75.2(1.0)† 217.7(1.4)	74.0(1.0)† 217.0(1.3)	74.1(0.9)† 217.9(1.0)†	75.2(0.7)# 218.0(1.3)#	LQ
Black	13.5(1.3) 170.1(1.7)*	13.4(0.8) 181.2(1.2)†	14.0(1.0) 189.3(1.8)†	15.5(0.5) 185.7(1.1)†	15.9(0.7) 188.5(2.4)†	16.1(0.6) 181.8(2.9)†	15.7(0.4) 184.5(2.2)†	14.9(0.6) 185.4(2.3)#	LQ
Hispanic	*****(0.0) *****(0.0)	4.8(0.8) 182.7(2.2)	5.7(0.8) 190.2(2.3)	7.3(1.4) 187.2(2.1)	6.2(1.0) 193.7(3.5)	6.2(0.6) 189.4(2.3)	6.8(0.8) 191.7(3.1)	5.8(0.4) 185.9(3.9)	N
Other	2.2(0.6) 193.5(3.8)*	1.8(0.5)* 207.8(4.1)	1.3(0.3)* 218.5(3.8)†	2.3(0.2)* 223.8(2.5)†	2.7(0.4) 228.4(5.4)†	3.6(0.7) 205.5(4.4)	3.4(0.3) 207.5(4.0)	3.6(0.4)# 210.8(4.9)#	LQ
GRADE									
Below Modal Grade	24.3(0.8)* 177.5(1.2)*	22.7(0.8)* 183.3(1.1)†*	27.7(1.5)* 188.9(1.3)†	34.2(0.3)†* 186.9(0.9)†*	36.8(0.3)†* 192.6(1.8)†	42.0(0.5)†* 188.8(1.8)†	42.9(0.5)†* 192.3(1.4)†	39.8(0.5)# 194.3(1.6)#	LQ
At Modal Grade	74.7(0.8)* 217.1(1.1)*	75.3(0.9)* 218.2(0.7)	71.4(1.4)* 225.2(0.8)†	65.3(0.2)†* 222.8(0.8)†	62.6(0.3)†* 222.8(1.5)†	57.7(0.5)†* 223.8(1.5)†	57.0(0.5)†* 224.1(1.0)†	59.8(0.5)# 221.8(1.3)#	LQ
Above Modal Grade	1.0(0.1)* 232.3(4.1)	0.5(0.1)† 225.9(4.3)*	0.4(0.1)† 243.1(6.1)	0.4(0.1)† 253.5(4.7)†	0.5(0.2) 262.4(11.0)	0.2(0.1)† 241.6(20.1)	0.2(0.1)† 242.9(16.7)	0.4(0.1)# ***(***)	L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

***** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 9

Average reading scale scores across assessment years

Weighted percentages and average reading scale scores and jackknifed standard errors (continued)

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
REGION									
Northeast	26.2(1.5)	26.9(1.1)*	22.6(2.1)	21.7(0.4)†	22.4(1.5)	22.3(1.1)	21.1(1.3)	22.4(1.0)#	
	213.0(1.7)	214.8(1.3)	221.1(2.1)†	215.7(1.7)	215.2(2.6)	217.4(2.2)	217.6(2.6)	217.4(2.9)	N
Southeast	22.0(1.7)	21.9(0.8)	24.3(2.3)	23.6(1.2)	25.3(1.7)	24.2(1.2)	23.4(1.4)	24.3(1.5)	
	193.9(2.9)*	201.1(1.2)	210.3(2.3)†	204.3(1.6)†	207.2(2.1)†	197.4(3.2)	199.3(2.0)	208.4(3.0)#	LQ
Central	29.3(2.0)	26.4(1.2)	25.1(3.4)	27.0(1.3)	23.8(0.6)	25.0(0.7)	28.3(1.1)	25.5(1.0)	
	214.9(1.2)	215.5(1.2)	216.7(1.4)	215.3(1.5)	218.2(2.2)	212.7(2.0)	215.8(1.6)	214.3(2.3)	N
West	22.6(1.9)	24.7(1.1)	28.1(2.1)	27.7(0.5)	28.5(1.1)	28.5(0.8)†	27.2(0.9)	27.8(1.0)#	
	205.0(2.0)	207.0(2.0)	212.8(1.8)†	207.8(1.5)	207.9(2.6)	209.6(2.8)	209.3(2.3)	205.1(2.8)	Q
PARENTS' EDUCATION LEVEL									
Less Than H.S.	10.0(0.4)*	9.9(0.4)*	6.5(0.5)†*	5.6(0.2)†*	4.6(0.6)†	5.0(0.5)†	5.1(0.4)†	4.1(0.4)#	
	188.6(1.5)	189.9(1.3)	194.3(1.6)	195.1(1.4)†	192.5(4.9)	192.6(3.2)	194.9(4.5)	189.1(4.0)	N
Graduated H.S.	22.3(0.5)*	23.8(0.4)*	25.3(0.8)†*	19.6(0.6)†*	15.9(0.6)†	17.1(0.8)†	15.5(0.8)†	15.7(0.8)#	
	207.8(1.2)	211.3(0.9)	213.0(1.3)†	208.9(1.0)	210.8(2.2)	209.1(1.8)	207.4(1.5)	207.1(2.6)	Q
Post H.S.	33.0(0.9)*	34.2(0.7)*	40.1(1.5)†*	36.7(1.0)†*	45.2(1.4)†	42.4(1.3)†	44.7(0.9)†	46.3(1.2)#	
	223.9(1.1)	221.5(0.9)	226.0(1.1)*	222.9(0.9)	220.0(1.7)	217.7(2.0)†	219.5(1.4)	221.0(1.3)	L
Unknown	34.7(0.7)	32.1(0.8)	28.1(1.0)†*	37.6(0.9)*	34.2(1.3)	35.5(1.1)	34.4(1.3)	33.8(0.8)	
	197.4(1.0)*	203.1(0.8)†	206.1(1.0)†	204.4(0.7)†	204.4(1.5)†	201.4(1.5)	204.1(1.2)†	202.4(1.3)#	LQ

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These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 9

Average reading scale scores across assessment years

Weighted percentages and average reading scale scores and jackknifed standard errors (continued)

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TYPE OF SCHOOL									
Public	***** (0.0)	***** (0.0)	88.8 (1.4)	87.0 (1.7)	87.7 (2.7)	92.1 (1.9)	88.2 (1.7)	89.4 (2.1)	
	***** (0.0)	***** (0.0)	213.5 (1.1)	209.4 (0.8) †	210.2 (1.2)	207.5 (1.4) †	208.6 (1.0) †	209.4 (1.4) #	L
Non-Public	***** (0.0)	***** (0.0)	11.2 (1.4)	13.0 (1.7)	12.3 (2.7)	7.9 (1.9)	11.8 (1.7)	10.6 (2.1)	
	***** (0.0)	***** (0.0)	227.0 (1.8)	222.8 (1.6)	223.4 (3.0)	228.3 (3.3)	224.7 (2.3)	225.0 (2.7)	N
QUARTILES									
Upper	25.0 (0.8)	25.0 (0.7)	25.0 (1.1)	25.0 (0.8)	25.0 (1.2)	25.0 (1.0)	25.0 (0.9)	25.0 (1.1)	
	252.6 (0.5) *	251.3 (0.7) *	255.0 (0.8)	257.9 (0.4) †	259.1 (1.6) †	261.3 (1.1) † *	256.4 (0.9) †	256.1 (1.0) #	LQ
Middle Two	50.0 (0.6)	50.0 (0.5)	50.0 (0.6)	50.0 (0.6)	50.0 (1.4)	50.0 (0.8)	50.0 (0.9)	50.0 (1.0)	
	210.6 (0.4) *	213.1 (0.3) †	218.0 (0.3) † *	211.8 (0.3)	212.8 (0.7) †	209.4 (0.6) *	212.0 (0.7)	213.2 (0.7) #	Q
Lower	25.0 (0.9)	25.0 (0.8)	25.0 (1.0)	25.0 (0.7)	25.0 (1.3)	25.0 (1.0)	25.0 (0.9)	25.0 (1.3)	
	156.6 (0.7) *	162.8 (0.5) †	169.3 (1.0) † *	161.6 (0.6) †	162.7 (1.6) †	156.5 (1.5)	161.7 (1.0) †	161.7 (1.4) #	Q

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

***** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 13

Average reading scale scores across assessment years

Weighted percentages and average reading scale scores and jackknifed standard errors

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	100.0(0.0) 255.2(0.9)	100.0(0.0) 255.9(0.8)	100.0(0.0) 258.5(0.9)	100.0(0.0) 257.1(0.5)	100.0(0.0) 257.5(1.0)	100.0(0.0) 256.8(0.8)	100.0(0.0) 259.8(1.2)†	100.0(0.0) 257.9(0.9)#	L
GENDER									
Male	50.0(0.4) 249.6(1.0)	49.9(0.5) 249.6(0.8)	49.4(0.3) 254.3(1.1)†	51.0(0.5) 252.6(0.6)†	49.5(0.8) 251.8(1.3)	50.2(0.9) 250.5(1.1)	49.2(0.9) 254.1(1.7)	51.4(0.8) 250.6(1.2)	Q
Female	50.0(0.4) 260.8(0.9)*	50.1(0.5) 262.3(0.9)	50.6(0.3) 262.6(0.9)	49.0(0.5) 261.7(0.6)*	50.5(0.8) 263.0(1.0)	49.8(0.9) 263.1(1.1)	50.8(0.9) 265.3(1.2)†	48.5(0.8) 265.7(1.2)#	L
RACE/ETHNICITY									
White	84.2(1.4)* 260.9(0.7)*	80.9(1.2)* 262.1(0.7)	79.7(1.8)* 264.4(0.7)†	76.8(0.6)†* 262.6(0.6)	76.4(0.7)†* 261.3(1.1)	73.5(0.8)† 262.3(0.9)	73.0(0.7)† 266.4(1.2)†	73.8(0.5)# 265.1(1.1)#	L
Black	14.5(1.4) 222.4(1.2)*	12.7(0.9) 225.7(1.2)*	13.5(1.3) 232.8(1.5)†	14.1(0.2) 236.3(1.0)†	15.0(0.3) 242.9(2.4)†	15.4(0.2) 241.5(2.2)†	16.1(0.4) 237.6(2.3)†	14.7(0.5) 234.3(2.4)#	LQ
Hispanic	*****(0.0) *****(0.0)	4.9(0.8)* 232.5(3.0)	5.5(1.0) 237.2(2.0)	6.9(0.7) 239.6(1.7)	6.1(0.6) 240.1(3.5)	8.2(0.5)† 237.8(2.3)	7.3(0.4)† 239.2(3.5)	8.0(0.4)# 235.1(1.9)	Q
Other	1.2(0.3)* 251.3(3.0)	1.6(0.5)* 255.6(3.4)	1.3(0.3)* 253.7(6.4)	1.9(0.2)* 260.0(2.8)	2.5(0.3)† 269.3(4.2)†	3.0(0.8) 252.7(5.3)	3.5(0.3)† 268.5(3.4)†	3.2(0.3)# 257.4(5.0)	L
GRADE									
Below Modal Grade	27.7(0.9)* 229.5(1.0)*	27.6(0.9)* 232.3(0.9)*	27.9(1.2)* 239.5(1.5)†	37.3(0.2)†* 239.1(0.7)†	38.8(0.5)†* 242.8(1.4)†	39.4(0.4)†* 242.7(1.1)†	43.1(0.7)† 242.8(1.9)†	43.7(0.5)# 243.6(1.6)#	LQ
At Modal Grade	71.0(0.9)* 264.8(0.8)*	71.6(0.9)* 264.8(0.7)*	70.2(1.3)* 266.0(0.8)	62.1(0.2)†* 266.7(0.5)	60.5(0.3)†* 266.7(1.1)	60.1(0.2)†* 265.8(0.9)	55.6(0.5)† 271.8(1.1)†	56.3(0.5)# 269.0(0.8)#	L
Above Modal Grade	1.2(0.2)* 278.0(2.4)	0.9(0.1)* 277.8(4.2)*	0.5(0.1)†* 274.2(4.9)*	0.6(0.2)†* 294.5(7.5)*	0.7(0.5) 271.8(10.8)*	0.5(0.3) 289.6(16.0)*	1.3(0.6) 312.1(3.9)†*	0.0(0.0)# ***(***)	N

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Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

***** No data were available.

L Trend tests for linear terms were significant.

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N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 13

Average reading scale scores across assessment years

Weighted percentages and average reading scale scores and jackknifed standard errors (continued)

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
REGION									
Northeast	24.4(1.5)	24.8(1.1)*	24.2(2.2)	22.6(0.4)*	22.8(2.2)	23.2(1.0)	22.2(0.8)	20.4(0.7)#	
	261.1(2.0)*	258.5(1.8)*	260.0(1.8)*	260.4(0.6)*	258.6(2.4)*	258.9(1.8)*	264.6(3.2)	269.0(2.0)#	LQ
Southeast	23.6(2.2)	22.2(1.1)	23.9(2.7)	23.2(1.7)	23.7(1.4)	23.3(0.8)	23.1(1.6)	21.8(1.6)	
	244.7(1.7)	249.3(1.5)	252.6(1.6)†	256.4(1.5)†	257.6(2.2)†	255.5(2.2)†	253.8(2.5)†	252.7(2.5)#	LQ
Central	28.6(2.2)	27.6(1.3)	26.0(3.5)	27.2(1.6)	25.6(2.0)	23.7(0.7)	26.0(1.0)	26.8(1.6)	
	260.1(1.8)	261.5(1.4)	264.5(1.4)	258.8(1.0)	255.9(2.0)	257.4(1.5)	263.5(3.0)	259.5(3.3)	N
West	23.4(2.3)*	25.5(1.1)*	25.8(2.3)	27.1(0.5)*	27.9(1.0)	29.8(0.9)	28.7(1.2)	31.0(1.1)#	
	253.6(1.3)	253.2(1.7)	256.4(2.0)	253.8(0.9)	257.9(2.1)	255.6(1.6)	257.5(1.6)	252.9(2.1)	N
PARENTS' EDUCATION LEVEL									
Less Than H.S.	16.4(0.6)*	14.0(0.6)†*	10.2(0.6)†*	8.7(0.4)†	7.9(0.6)†	8.0(0.6)†	6.0(0.5)†	7.0(0.6)#	
	238.4(1.3)	238.7(1.2)	238.5(1.1)	240.0(0.9)	246.5(2.1)†*	240.8(1.8)	239.2(2.6)	236.7(2.4)	Q
Graduated H.S.	31.6(0.7)*	33.2(0.6)*	30.7(0.7)	35.7(1.0)†*	31.0(1.1)	30.9(1.2)	28.3(1.2)	27.1(1.2)#	
	255.5(0.8)	254.6(0.7)	253.5(0.9)	253.4(0.7)	252.7(1.2)	251.4(0.9)†	252.1(1.7)	251.4(1.4)#	L
Post H.S.	38.1(1.1)*	40.0(0.9)*	49.1(1.3)†*	45.6(1.1)†*	51.8(1.5)†	50.4(1.5)†*	56.6(1.6)†	57.3(1.5)#	
	270.2(0.8)	269.8(0.8)	270.9(0.8)	267.6(0.7)	265.3(1.4)†	266.9(1.0)	269.9(1.4)	268.5(1.2)	L
Unknown	14.0(0.8)*	12.7(0.6)*	10.0(0.7)†	9.8(0.4)†	9.2(0.7)†	10.7(0.6)†	9.1(0.5)†	8.6(0.7)#	
	233.1(1.0)	234.8(1.1)	233.3(1.7)	236.5(1.3)	240.4(3.0)	237.7(1.9)	236.2(2.6)	230.3(3.0)	Q

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Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 13

Average reading scale scores across assessment years

Weighted percentages and average reading scale scores and jackknifed standard errors (continued)

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TYPE OF SCHOOL									
Public	***** (0.0)	***** (0.0)	88.4 (1.3)	87.9 (1.1)	89.1 (2.5)	87.7 (1.9)	86.4 (1.9)	88.9 (1.5)	
	***** (0.0)	***** (0.0)	256.9 (1.1)	255.2 (0.6)	256.1 (1.0)	255.0 (0.8)	257.2 (1.3)	255.6 (1.0)	N
Non-Public	***** (0.0)	***** (0.0)	11.6 (1.3)	12.1 (1.1)	10.9 (2.5)	12.3 (1.9)	13.6 (1.9)	11.1 (1.5)	
	***** (0.0)	***** (0.0)	270.6 (1.5)	271.2 (1.7)	268.3 (2.8)	269.7 (2.9)	276.3 (2.6)	275.8 (3.4)	N
QUARTILES									
Upper	25.0 (0.9)	25.0 (0.8)	25.0 (0.8)	25.0 (0.8)	25.0 (0.9)	25.0 (0.8)	25.0 (1.2)	25.0 (0.8)	
	293.2 (0.4)*	296.4 (0.4)†*	294.1 (0.5)*	296.2 (0.5)†*	295.8 (1.0)*	296.8 (0.8)†*	303.1 (1.1)†	301.4 (0.8)#	LQ
Middle Two	50.0 (0.6)	50.0 (0.6)	50.0 (0.6)	50.0 (0.6)	50.0 (0.7)	50.0 (1.0)	50.0 (1.1)	50.0 (1.0)	
	257.6 (0.4)*	258.1 (0.4)	260.5 (0.3)†	258.4 (0.2)	258.5 (0.7)	257.9 (0.5)	262.0 (0.6)†	260.3 (0.8)#	L
Lower	25.0 (0.9)	25.0 (0.8)	25.0 (1.1)	25.0 (0.7)	25.0 (0.9)	25.0 (0.9)	25.0 (1.1)	25.0 (0.8)	
	212.4 (0.7)	211.3 (0.5)	218.7 (0.7)†*	214.5 (0.5)*	217.2 (1.0)†*	214.5 (0.9)*	212.2 (1.4)	209.5 (0.9)#	Q

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

***** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 17

Average reading scale scores across assessment years

Weighted percentages and average reading scale scores and jackknifed standard errors

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	100.0(0.0) 285.2(1.2)	100.0(0.0) 285.6(0.8)	100.0(0.0) 285.5(1.2)	100.0(0.0) 288.8(0.6)	100.0(0.0) 290.1(1.0)†	100.0(0.0) 290.2(1.1)†	100.0(0.0) 289.7(1.1)†	100.0(0.0) 288.1(1.3)	L
GENDER									
Male	49.2(0.5) 278.9(1.2)	48.8(0.5) 279.7(1.0)	50.5(0.6) 281.8(1.3)	51.1(0.7) 283.8(0.6)†	47.7(1.3) 286.0(1.5)†	50.3(0.6) 284.0(1.6)	52.1(0.9)† 284.2(1.6)	50.2(1.4) 281.7(2.2)	LQ
Female	50.8(0.5) 291.3(1.3)	51.2(0.5) 291.2(1.0)	49.5(0.6) 289.2(1.2)*	48.9(0.7) 293.9(0.8)	52.1(1.4) 293.8(1.5)	49.7(0.6) 296.5(1.2)†	47.9(0.9)† 295.7(1.1)	49.6(1.4) 294.7(1.5)	L
RACE/ETHNICITY									
White	87.1(1.3)* 291.4(1.0)	84.3(1.0)* 293.0(0.6)	83.1(1.6)* 292.8(0.9)	77.4(0.6)†* 295.2(0.7)†	76.7(0.6)†* 294.7(1.2)	73.5(0.5)† 296.6(1.2)†	74.7(0.6)†* 297.4(1.4)†	71.9(0.8)# 295.7(1.5)#	L
Black	11.4(1.2)* 238.7(1.7)*	11.0(0.8)* 240.6(2.0)*	12.0(1.4) 243.1(1.8)*	14.1(0.2)* 264.3(1.0)†	15.2(0.3)† 274.4(2.4)†	15.9(0.3)† 267.3(2.3)†	14.7(0.3) 260.6(2.1)†	15.2(0.3)# 266.2(3.9)#	LQ
Hispanic	*****(0.0) *****(0.0)	3.4(0.6)* 252.4(3.6)	3.9(0.6)* 261.4(2.7)	6.6(0.7)† 268.1(2.2)†	5.8(0.5)†* 270.8(4.3)†	7.0(0.4)† 274.8(3.6)†	7.5(0.6)† 271.2(3.7)†	8.3(0.5)# 263.2(4.9)	LQ
Other	1.5(0.4)* 275.9(4.8)	1.4(0.4)* 274.3(4.4)	1.1(0.2)* 280.4(3.0)	1.9(0.1)* 284.7(3.1)	2.3(0.3)* 290.0(5.3)	3.6(0.5)† 290.1(3.5)	2.9(0.3)† 287.0(5.8)	3.3(0.2)# 287.0(7.6)	L
GRADE									
Below Modal Grade	14.1(0.6)* 238.4(1.5)*	15.1(0.7)* 242.1(1.8)*	13.9(0.7)* 244.3(2.1)*	22.2(0.7)†* 258.9(0.9)†	23.6(1.2)†* 265.4(1.9)†	26.2(0.6)†* 261.4(1.9)†	28.4(0.6)† 261.4(1.5)†	29.3(0.8)# 260.5(2.4)#	LQ
At Modal Grade	72.9(0.7)* 291.1(1.0)*	73.0(0.7)* 292.1(0.7)*	77.0(0.6)†* 291.2(1.0)*	67.7(0.2)†* 295.6(0.6)†	64.9(0.2)†* 296.5(1.1)†	65.2(0.2)†* 299.2(1.0)†	63.9(0.2)† 301.1(1.3)†	63.3(0.3)# 298.9(1.2)#	L
Above Modal Grade	13.0(0.7)* 302.5(1.6)	11.6(0.4)* 301.5(1.0)	9.1(0.6)† 300.5(1.7)	10.0(0.7)† 303.8(1.2)	11.6(1.3)* 304.6(3.0)	8.7(0.6)† 309.7(2.3)	7.7(0.6)† 300.0(3.2)	7.4(0.8)# 305.2(5.3)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

**** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 17

Average reading scale scores across assessment years

Weighted percentages and average reading scale scores and jackknifed standard errors (continued)

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
REGION									
Northeast	26.2(1.9)	25.5(1.2)	22.0(2.9)	24.3(0.4)	22.7(0.8)	22.6(1.1)	21.7(0.9)	22.1(1.2)	
	291.3(2.8)	289.1(1.7)	285.9(2.4)	292.2(1.9)	294.8(2.9)	295.7(1.8)	297.3(3.2)	296.8(4.2)	L
Southeast	20.0(1.8)	19.6(0.8)*	21.4(1.9)	22.2(1.8)	22.9(1.0)	23.2(0.9)	24.8(1.4)	24.8(1.7)#	
	270.5(2.4)*	276.5(1.4)	280.1(2.2)†	284.7(1.6)†	285.5(2.1)†	285.1(2.5)†	278.4(2.9)	283.5(2.8)#	LQ
Central	29.9(2.4)	30.1(1.2)	28.4(3.2)	27.1(1.7)	26.3(1.8)	26.6(1.0)	24.5(0.8)	26.0(1.4)	
	290.7(2.1)	291.8(1.4)	287.4(2.2)	290.0(1.4)	291.2(1.9)	293.5(2.4)	293.8(2.1)	285.7(3.7)	N
West	23.9(2.4)	24.9(1.1)	28.2(2.3)	26.3(0.6)	28.1(1.1)	27.6(0.9)	29.0(1.0)	27.1(0.9)	
	283.7(1.8)	281.6(1.9)	287.3(2.1)	288.4(1.1)	289.0(1.8)	286.8(2.6)	290.4(2.3)	287.8(2.8)	L
PARENTS' EDUCATION LEVEL									
Less Than H.S.	19.8(0.8)*	16.0(0.6)†*	12.8(0.7)†*	11.6(0.6)†*	8.9(0.8)†	8.8(0.6)†	8.1(0.8)†	7.3(0.5)#	
	261.3(1.5)	262.5(1.3)	262.1(1.5)	269.4(1.1)†	267.4(2.0)	269.7(2.8)	270.8(3.9)	267.9(2.7)#	L
Graduated H.S.	31.1(0.8)*	33.6(0.5)*	32.3(0.9)*	35.1(1.0)†*	30.3(1.2)	29.9(1.0)	28.4(0.9)	27.3(1.1)#	
	283.0(1.2)*	281.4(1.1)	277.5(1.0)†	281.2(0.7)	282.0(1.3)	282.9(1.4)*	280.5(1.6)	276.1(1.9)#	N
Post H.S.	41.9(1.3)*	46.4(0.8)†*	51.3(1.3)†*	49.9(1.2)†*	58.3(1.6)†	58.1(1.3)†	60.6(1.4)†	62.1(1.4)#	
	302.2(1.0)	300.6(0.7)	298.9(1.0)	301.2(0.7)	299.5(1.3)	299.9(1.1)	298.6(1.4)	298.5(1.4)#	L
Unknown	7.2(0.8)*	4.0(0.2)†	3.6(0.4)†	3.3(0.2)†	2.4(0.3)†	3.2(0.3)†	2.9(0.3)†	3.3(0.4)#	
	261.1(5.0)	239.8(2.8)†	249.8(3.5)	256.5(2.0)	254.7(6.2)	245.9(5.7)	254.7(5.9)	242.9(5.2)#	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 17

Average reading scale scores across assessment years

Weighted percentages and average reading scale scores and jackknifed standard errors (continued)

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TYPE OF SCHOOL									
Public	***** (0.0)	***** (0.0)	92.6 (1.2)	88.9 (1.7)	87.6 (3.5)	92.9 (1.5)	91.8 (1.9)	89.4 (2.3)	
	***** (0.0)	***** (0.0)	284.4 (1.2)	287.2 (0.6)	288.7 (1.0) †	288.6 (1.1)	287.8 (1.0)	286.0 (1.5)	Q
Non-Public	***** (0.0)	***** (0.0)	7.4 (1.2)	11.1 (1.7)	12.4 (3.5)	7.1 (1.5)	8.2 (1.9)	10.6 (2.3)	
	***** (0.0)	***** (0.0)	298.4 (2.7)	303.0 (2.0)	299.6 (3.8)	311.0 (4.2)	309.6 (4.2)	306.1 (5.8)	L
QUARTILES									
Upper	25.0 (1.0)	25.0 (0.6)	25.0 (1.0)	25.0 (0.8)	25.0 (1.0)	25.0 (0.8)	25.0 (0.9)	25.0 (1.1)	
	332.5 (0.6) *	334.0 (0.5)	326.8 (0.8) † *	331.4 (0.5) *	330.1 (1.3) *	335.5 (1.1)	335.3 (0.9)	336.7 (1.3) #	LQ
Middle Two	50.0 (0.6)	50.0 (0.6)	50.0 (0.8)	50.0 (0.5)	50.0 (1.1)	50.0 (0.8)	50.1 (0.9)	50.0 (1.3)	
	289.0 (0.5)	288.4 (0.4) *	288.7 (0.4)	290.7 (0.3)	292.1 (0.7) †	292.1 (0.5) †	293.3 (0.7) †	290.7 (0.7)	L
Lower	25.0 (1.0)	25.0 (0.7)	25.0 (1.1)	25.0 (0.8)	25.0 (1.2)	25.0 (1.0)	24.9 (1.0)	25.0 (1.3)	
	230.2 (0.8) *	231.5 (1.0)	237.6 (1.0) †	240.8 (0.3) † *	246.0 (1.1) † *	241.1 (1.6) † *	236.9 (1.3) †	234.4 (1.3) #	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

***** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 9

Average reading scale scores across assessment years

Weighted percentages of observations with average reading scale scores at or above 150

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	90.6(0.5)	93.1(0.4)†	94.6(0.4)†*	92.3(0.3)†	92.7(0.7)	90.1(0.9)	92.3(0.4)	92.1(0.7)	Q
GENDER									
Male	87.9(0.7)	91.0(0.5)†	92.9(0.5)†	90.4(0.5)†	90.4(0.9)	87.9(1.4)	90.2(0.8)	90.2(1.0)	Q
Female	93.2(0.5)	95.3(0.3)†	96.4(0.4)†*	94.2(0.4)	94.9(1.0)	92.4(1.1)	94.4(0.6)	94.0(0.8)	Q
RACE/ETHNICITY									
White	94.0(0.4)	96.0(0.3)†	97.1(0.2)†	95.4(0.3)†	95.1(0.7)	93.5(0.9)	95.8(0.5)†	95.7(0.5)#	Q
Black	69.7(1.7)*	80.7(1.1)†	84.9(1.4)†	81.3(1.0)†	83.2(2.4)†	76.9(2.7)	79.6(2.2)†	78.7(2.4)#	LQ
Hispanic	***** (0.0)	80.8(2.5)	84.5(1.8)	82.0(2.1)	85.6(3.5)	83.7(1.8)	83.4(2.6)	80.4(4.6)	N
Other	86.0(1.9)	92.4(1.9)	96.1(1.2)†	95.4(1.1)†	96.9(1.8)†	89.3(3.1)	90.8(2.9)	91.0(3.4)	Q
GRADE									
Below Modal Grade	75.6(1.3)*	81.2(1.1)†	84.4(1.0)†	82.1(0.7)†	85.0(1.9)†	82.2(1.9)†	85.4(0.9)†	85.7(1.6)#	LQ
At Modal Grade	95.4(0.4)	96.8(0.3)†	98.6(0.2)†*	97.4(0.2)†	97.1(0.7)	95.8(0.6)	97.4(0.4)†	96.3(0.7)	Q
Above Modal Grade	98.0(1.3)	98.8(1.4)	97.5(1.6)	100.0(0.0)	99.1(5.2)	98.3(0.0)	100.0(0.0)	*** (***)	N
REGION									
Northeast	93.4(0.9)	94.1(0.5)	96.4(0.7)	94.2(0.6)	92.8(1.3)	92.6(1.6)	94.8(0.9)	95.0(2.0)	N
Southeast	82.7(1.9)*	89.8(0.8)†	93.0(0.9)†	89.7(0.8)†	91.3(1.7)†	84.5(2.4)	87.1(1.1)	90.3(1.8)#	Q
Central	93.6(0.5)	95.6(0.5)†	95.8(0.7)	94.3(0.6)	95.4(0.7)	92.7(1.4)	95.1(0.9)	94.2(1.3)	N
West	91.0(1.1)	92.4(1.0)	93.6(0.8)	90.9(0.9)	91.5(1.6)	90.6(1.3)	91.8(1.3)	89.4(1.8)	N
PARENTS' EDUCATION LEVEL									
Less Than H.S.	82.3(1.4)	84.4(1.2)	85.6(1.5)	86.2(1.3)	84.4(4.4)	83.0(3.8)	86.4(5.4)	82.3(3.8)	N
Graduated H.S.	92.1(0.7)	94.2(0.5)	94.9(0.6)†	92.8(0.7)	92.3(2.1)	91.2(1.3)	91.4(1.6)	91.9(1.4)	N
Post H.S.	96.1(0.4)	96.5(0.4)	97.3(0.4)	95.4(0.4)	95.1(0.8)	92.6(1.2)†	94.8(0.5)	95.3(0.7)	L
Unknown	86.7(0.7)	91.5(0.5)†	92.7(0.9)†	91.0(0.4)†	90.9(1.2)†	87.6(1.4)	91.3(0.8)†	89.2(1.5)	Q
TYPE OF SCHOOL									
Public	***** (0.0)	***** (0.0)	94.2(0.4)*	91.7(0.4)†	92.1(0.8)	89.6(1.0)†	91.5(0.5)†	91.4(0.8)#	LQ
Non-Public	***** (0.0)	***** (0.0)	98.1(0.4)	96.8(0.5)	96.7(1.3)	96.2(1.7)	97.9(1.2)	97.7(1.3)	N
QUARTILES									
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	99.6(0.1)	100.0(0.0)†	99.9(0.1)	99.9(0.1)	99.7(0.2)	99.1(0.5)	99.6(0.1)	99.6(0.3)	N
Lower	63.1(1.1)	72.6(1.0)†	78.7(1.2)†*	69.7(0.9)†	71.3(2.3)†	62.2(3.0)	69.9(1.4)†	69.1(2.6)#	Q

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

***** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 9

Average reading scale scores across assessment years

Weighted percentages of observations with average reading scale scores at or above 200

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	58.7(1.0)	62.1(0.8)†	67.7(1.0)†	61.5(0.7)	62.6(1.3)	58.9(1.3)	62.0(1.1)	63.3(1.4)#	Q
GENDER									
Male	52.7(1.2)*	56.2(1.0)	62.7(1.1)†	58.0(0.9)†	58.4(1.8)†	53.8(1.9)	56.9(1.6)	59.2(1.5)#	Q
Female	64.6(1.1)	68.1(0.8)	72.7(1.0)†	65.2(0.8)	66.9(1.4)	64.2(1.2)	67.3(1.2)	67.3(1.9)	N
RACE/ETHNICITY									
White	65.0(1.0)*	69.0(0.8)†	74.2(0.7)†	68.6(0.8)†	68.4(1.6)	66.0(1.4)	69.3(1.2)†	70.1(1.5)#	Q
Black	22.0(1.5)*	31.6(1.5)†	41.3(1.9)†	36.6(1.5)†	39.4(2.9)†	33.9(3.4)†	36.6(2.2)†	38.3(2.8)#	LQ
Hispanic	***** (0.0)	34.6(3.0)	41.6(2.6)	39.6(2.2)	45.9(3.3)	40.9(2.7)	43.1(3.5)	37.1(4.6)	N
Other	42.0(5.2)*	58.8(5.3)	72.9(3.7)†	72.7(2.9)†	77.1(4.8)†	56.8(4.5)	59.7(4.9)	65.4(4.8)#	LQ
GRADE									
Below Modal Grade	28.8(1.4)*	33.8(1.2)*	40.4(1.5)†	38.0(1.0)†*	43.4(2.1)†	40.1(1.8)†	43.5(1.8)†	47.1(2.5)#	L
At Modal Grade	68.1(1.1)*	70.7(0.7)	78.3(0.8)†*	73.5(0.7)†	73.7(1.5)†	72.5(1.6)	76.0(0.9)†	73.9(1.4)#	LQ
Above Modal Grade	81.0(4.8)	79.8(4.7)*	88.5(5.4)	93.4(3.8)	94.3(6.1)	80.9(19.5)	88.5(0.0)	*** (***)	N
REGION									
Northeast	64.1(1.6)	66.8(1.5)	73.5(2.1)†	66.5(1.5)	65.7(2.5)	65.4(2.8)	69.3(2.8)	70.1(3.6)	N
Southeast	45.9(2.8)*	53.1(1.2)	62.6(2.4)†	54.8(1.6)†	58.0(2.6)†	48.2(3.3)*	50.6(1.9)*	60.8(2.8)#	Q
Central	65.7(1.4)	67.4(1.3)	69.4(1.2)	66.0(1.6)	68.4(1.7)	62.6(2.0)	67.7(1.9)	65.5(2.0)	N
West	55.6(1.8)	59.5(2.1)	65.9(1.5)†	58.9(1.5)	59.5(3.5)	59.6(2.9)	60.4(3.0)	57.8(3.3)	Q
PARENTS' EDUCATION LEVEL									
Less Than H.S.	39.4(1.7)	41.8(1.4)	47.5(1.6)†	47.4(2.1)†	44.0(7.1)	42.8(4.1)	46.4(4.5)	43.3(6.3)	N
Graduated H.S.	59.6(1.3)	64.1(1.0)†	66.5(1.3)†	60.0(1.3)	62.7(3.4)	59.4(2.9)	60.4(2.4)	59.4(3.3)	N
Post H.S.	73.7(1.1)	73.3(1.0)	77.8(1.1)*	71.9(0.9)	69.7(1.3)	65.9(2.0)†	70.7(1.5)	72.5(1.5)	L
Unknown	49.3(1.2)*	55.1(1.0)†	59.0(1.1)†	55.9(1.0)†	56.1(1.9)†	52.7(1.9)	55.2(1.9)	55.3(1.6)#	Q
TYPE OF SCHOOL									
Public	***** (0.0)	***** (0.0)	66.2(1.0)	60.0(0.8)†	61.1(1.5)†	57.5(1.5)†	60.0(1.1)†	61.6(1.6)#	LQ
Non-Public	***** (0.0)	***** (0.0)	79.3(1.8)	73.9(1.7)	73.5(2.5)	74.8(3.0)	77.1(2.5)	77.1(3.4)	N
QUARTILES									
Upper	98.7(0.3)*	99.2(0.2)	99.6(0.2)	99.8(0.1)†	99.7(0.3)	99.7(0.3)	99.9(0.2)†	99.8(0.1)#	LQ
Middle Two	66.4(1.0)*	72.8(0.5)†	80.6(0.6)†*	70.2(0.6)†	72.4(1.1)†	65.8(1.3)*	71.4(1.4)†	73.5(1.6)#	Q
Lower	3.0(0.5)	3.8(0.4)	9.9(0.9)†	5.0(0.4)†	6.0(1.2)	4.3(1.1)	5.4(0.9)	6.3(1.7)	Q

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

***** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 9

Average reading scale scores across assessment years

Weighted percentages of observations with average reading scale scores at or above 250

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	15.6(0.6)	14.6(0.6)	17.7(0.8)	17.2(0.6)	17.5(1.1)	18.4(1.0)	16.2(0.8)	16.5(1.2)	L
GENDER									
Male	12.0(0.6)	11.5(0.6)*	14.6(0.9)	15.9(0.7)†	15.8(1.4)	16.1(1.2)†	14.2(1.0)	15.2(1.2)#	LQ
Female	19.2(0.8)	17.7(0.8)	20.7(1.0)	18.4(0.7)	19.1(1.2)	20.8(1.2)	18.2(1.1)	17.8(1.5)	N
RACE/ETHNICITY									
White	18.0(0.7)	17.4(0.7)	21.0(0.9)	20.9(0.7)†	20.3(1.5)	22.6(1.2)†	19.6(1.0)	19.7(1.5)	LQ
Black	1.6(0.5)	2.0(0.3)	4.1(0.6)†	4.5(0.5)†	5.6(1.2)†	5.2(1.5)	4.6(0.8)†	4.4(1.5)	L
Hispanic	*****(0.0)	2.6(0.5)	5.0(1.4)	4.3(0.6)	8.6(2.3)	5.8(2.0)	7.2(2.3)	6.4(1.6)#	L
Other	8.7(2.1)	14.5(3.5)	18.7(4.3)	24.7(2.6)†	29.8(6.9)†	13.1(3.9)	12.9(2.6)	15.8(3.7)	Q
GRADE									
Below Modal Grade	2.7(0.3)*	2.7(0.4)*	4.1(0.5)	5.2(0.5)†	7.4 (0.8)†	7.1(0.9)†	6.6(0.7)†	7.0(1.3)#	L
At Modal Grade	19.6(0.7)	18.2(0.7)*	22.9(0.9)†	23.2(0.8)†	23.0(1.8)	26.5(1.4)†	23.3(1.2)	22.5(1.4)	LQ
Above Modal Grade	34.2(5.4)	22.3(6.7)	46.7(10.3)	53.2(8.7)	60.4(15.7)	41.6(26.2)	51.8(26.5)	***(***)	N
REGION									
Northeast	17.9(0.9)	17.7(1.0)	21.6(2.2)	19.8(1.3)	20.8(1.9)	23.9(1.9)†	20.2(2.1)	18.9(2.1)	N
Southeast	10.2(1.1)	9.9(0.8)	15.3(1.5)†	13.8(0.9)	14.7(1.4)	12.8(2.7)	11.7(1.6)	15.8(2.8)	L
Central	19.7(0.9)	17.2(1.2)	17.9(1.1)	19.2(1.3)	20.7(3.2)	19.3(2.0)	17.6(1.3)	18.3(2.4)	N
West	13.0(1.4)	12.7(1.2)	16.4(1.5)	15.9(1.0)	14.5(1.1)	18.1(2.1)	15.6(1.9)	13.5(1.7)	N
PARENTS' EDUCATION LEVEL									
Less Than H.S.	6.1(0.8)	5.2(0.7)	6.7(1.0)	6.6(0.7)	6.3(2.1)	9.1(2.2)	7.8(2.6)	2.8(1.8)	N
Graduated H.S.	13.7(0.8)	14.0(0.9)	15.0(1.1)	14.3(0.9)	16.8(2.0)	17.2(1.4)	13.0(2.0)	13.4(2.0)	N
Post H.S.	26.1(1.1)	22.3(0.9)	25.9(1.1)	26.3(0.8)	22.8(1.6)	24.3(1.7)	22.2(1.3)	23.3(1.8)	N
Unknown	9.6(0.5)	9.7(0.6)	11.0(0.8)	11.8(0.6)†	12.3(1.3)	13.2(1.5)	11.4(1.0)	10.5(1.4)	L
TYPE OF SCHOOL									
Public	*****(0.0)	*****(0.0)	16.7(0.9)	16.3(0.6)	16.6(0.9)	17.2(1.0)	15.3(0.9)	15.7(1.3)	N
Non-Public	*****(0.0)	*****(0.0)	25.6(1.7)	23.6(1.7)	23.6(3.5)	32.4(4.3)	22.6(2.2)	23.6(2.8)	N
QUARTILES									
Upper	52.6(0.9)	50.5(1.6)*	58.1(1.7)†	61.0(1.0)†	63.1(3.2)†	66.0(1.9)†	59.4(2.2)†	59.6(3.0)#	LQ
Middle Two	5.0(0.3)	3.9(0.3)	6.3(0.4)†*	3.6(0.3)†	3.3(0.6)	3.8(0.5)	2.7(0.4)†	3.2(0.6)#	L
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)*	0.0(0.0)	0.0(0.2)	0.0(0.0)	0.0(0.0)	0.1(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

**** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 9

Average reading scale scores across assessment years

Weighted percentages of observations with average reading scale scores at or above 300

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	0.9(0.1)	0.6(0.1)	0.6(0.1)	1.0(0.1)	1.4(0.3)	1.7(0.3)	0.7(0.2)	0.7(0.3)	N
GENDER									
Male	0.6(0.2)	0.3(0.1)	0.4(0.1)	0.8(0.2)	1.1(0.4)	1.4(0.3)	0.5(0.2)	0.7(0.4)	L
Female	1.3(0.2)	0.9(0.2)	0.8(0.1)	1.1(0.1)	1.6(0.4)	2.0(0.5)	0.8(0.3)	0.6(0.3)	N
RACE/ETHNICITY									
White	1.1(0.2)	0.7(0.1)	0.8(0.1)	1.2(0.2)	1.6(0.3)	2.2(0.4)	0.9(0.2)	0.8(0.3)	N
Black	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.1(0.1)	0.2(0.2)	0.3(0.2)	0.0(0.0)	0.1(0.2)	N
Hispanic	*****(0.0)	0.0(0.0)	0.0(0.0)	0.1(0.0)	0.4(0.0)	0.2(0.3)	0.0(0.2)	0.1(0.0)	Q
Other	0.5(0.5)	0.9(0.9)	0.5(0.0)	1.9(0.6)	4.0(2.7)	0.7(0.8)	0.2(0.4)	0.7(0.0)	N
GRADE									
Below Modal Grade	0.0(0.0)	0.1(0.1)	0.1(0.0)	0.1(0.0)	0.3(0.2)	0.3(0.2)	0.0(0.1)	0.1(0.0)	N
At Modal Grade	1.2(0.2)	0.8(0.1)	0.8(0.1)	1.4(0.2)	1.8(0.4)	2.7(0.5)†*	1.1(0.3)	0.9(0.4)	N
Above Modal Grade	1.7(1.9)	0.7(1.2)	5.0(5.0)	8.3(3.3)	20.1(15.1)	3.1(0.0)	2.0(0.0)	*** (***)	N
REGION									
Northeast	1.1(0.3)	0.9(0.3)	0.8(0.2)	1.4(0.3)	1.7(0.4)	2.7(0.7)	0.8(0.4)	1.0(0.5)	N
Southeast	0.4(0.2)	0.3(0.2)	0.6(0.3)	0.6(0.2)	0.8(0.4)	1.0(0.5)	0.5(0.4)	0.7(0.6)	N
Central	1.3(0.3)	0.7(0.2)	0.6(0.2)	1.1(0.2)	1.9(1.1)	1.6(0.5)	0.9(0.3)	0.7(0.3)	N
West	0.7(0.2)	0.4(0.2)	0.5(0.2)	0.8(0.2)	1.1(0.4)	1.6(0.4)	0.5(0.3)	0.4(0.2)	N
PARENTS' EDUCATION LEVEL									
Less Than H.S.	0.2(0.1)	0.1(0.1)	0.1(0.1)	0.2(0.6)	0.0(0.0)	0.5(0.7)	0.0(0.0)	0.0(0.0)	N
Graduated H.S.	0.6(0.2)	0.5(0.2)	0.4(0.1)	0.6(0.2)	0.9(0.8)	1.3(0.7)	0.6(0.4)	0.6(0.3)	N
Post H.S.	2.0(0.3)	1.2(0.2)	1.1(0.2)	2.0(0.3)	2.2(0.7)	2.7(0.6)	1.1(0.3)	1.1(0.5)	N
Unknown	0.4(0.1)	0.2(0.1)	0.3(0.1)	0.4(0.1)	0.6(0.3)	0.8(0.4)	0.2(0.1)	0.2(0.2)	N
TYPE OF SCHOOL									
Public	*****(0.0)	*****(0.0)	0.6(0.1)	0.9(0.1)	1.2(0.3)	1.6(0.3)†	0.6(0.2)	0.6(0.3)	Q
Non-Public	*****(0.0)	*****(0.0)	1.1(0.5)	1.4(0.4)	2.4(1.1)	2.6(1.1)	1.0(0.6)	0.8(0.5)	N
QUARTILES									
Upper	3.7(0.5)	2.4(0.3)	2.5(0.4)	3.9(0.5)	5.4(1.3)	6.7(1.2)	2.7(0.7)	2.6(1.0)	N
Middle Two	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

**** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 9

Average reading scale scores across assessment years

Weighted percentages of observations with average reading scale scores at or above 350

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.0(0.0)	0.0(0.0)	N
GENDER									
Male	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Female	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.1(0.1)	0.0(0.0)	0.0(0.0)	N
RACE/ETHNICITY									
White	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.0(0.0)	0.0(0.0)	N
Black	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Hispanic	*****(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Other	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.1(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
GRADE N									
Below Modal Grade	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
At Modal Grade	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.1(0.1)	0.0(0.0)	0.0(0.0)	N
Above Modal Grade	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.5(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	*** (***)	N
REGION									
Northeast	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.0(0.0)	0.0(0.0)	N
Southeast	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.0(0.1)	0.0(0.0)	0.0(0.0)	N
Central	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
West	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.0(0.0)	0.0(0.0)	N
PARENTS' EDUCATION LEVEL									
Less Than H.S.	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Graduated H.S.	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.1(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Post H.S.	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.1(0.1)	0.0(0.0)	0.0(0.0)	N
Unknown	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.0(0.0)	0.0(0.0)	N
TYPE OF SCHOOL									
Public	*****(0.0)	*****(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.0(0.0)	0.0(0.0)	N
Non-Public	*****(0.0)	*****(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
QUARTILES									
Upper	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.1(0.1)	0.1(0.2)	0.0(0.0)	0.0(0.0)	N
Middle Two	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

**** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 13

Average reading scale scores across assessment years

Weighted percentages of observations with average reading scale scores at or above 150

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	99.8(0.0)	99.7(0.1)	99.9(0.1)*	99.8(0.0)	99.9(0.1)	99.8(0.1)	99.5(0.3)	99.3(0.2)#	L
GENDER									
Male	99.6(0.1)	99.6(0.1)	99.8(0.1)	99.7(0.1)	99.7(0.2)	99.7(0.2)	99.2(0.4)	99.1(0.3)	Q
Female	99.9(0.1)	99.9(0.1)	99.9(0.0)	99.9(0.1)	100.0(0.0)	99.9(0.1)	99.8(0.2)	99.6(0.2)	L
RACE/ETHNICITY									
White	99.9(0.0)	99.9(0.0)	100.0(0.0)	99.9(0.0)	99.9(0.1)	99.9(0.1)	99.8(0.1)	99.6(0.2)#	L
Black	98.6(0.3)	98.4(0.3)	99.3(0.3)	99.4(0.2)	99.8(0.3)†	99.4(0.5)	98.7(1.0)	98.6(1.0)	LQ
Hispanic	***** (0.0)	99.6(0.3)	99.7(0.3)	99.5(0.4)	99.2(0.8)	99.1(0.5)	98.1(2.2)	98.7(0.9)	Q
Other	99.8(0.3)	99.5(0.0)	99.9(0.4)	99.8(0.0)	100.0(0.0)	100.0(0.0)	99.8(0.0)	99.1(1.6)	L
GRADE									
Below Modal Grade	99.2(0.2)	99.0(0.2)	99.6(0.2)	99.5(0.1)	99.7(0.2)	99.5(0.3)	98.9(0.6)	98.8(0.4)	LQ
At Modal Grade	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	99.9(0.1)	99.8(0.1)	L
Above Modal Grade	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	*** (***)	N
REGION									
Northeast	99.9(0.1)	99.8(0.1)	99.9(0.1)	99.9(0.1)	99.9(0.2)	99.9(0.1)	99.4(0.8)	99.7(0.3)	LQ
Southeast	99.4(0.2)	99.6(0.1)	99.7(0.1)	99.8(0.1)	99.9(0.0)†	99.6(0.3)	99.1(0.6)	99.5(0.4)	LQ
Central	99.9(0.1)	99.8(0.1)	100.0(0.1)	99.9(0.1)	99.9(0.0)	99.9(0.1)	99.9(0.0)	99.2(0.6)	N
West	99.8(0.1)	99.6(0.2)	99.9(0.1)	99.7(0.1)	99.8(0.3)	99.7(0.2)	99.5(0.3)	99.1(0.4)	N
PARENTS' EDUCATION LEVEL									
Less Than H.S.	99.5(0.2)	99.4(0.2)	99.7(0.2)	99.5(0.2)	99.9(0.0)	99.5(0.4)	99.4(0.0)	98.8(1.3)	Q
Graduated H.S.	99.9(0.0)	99.8(0.1)	99.9(0.0)	99.8(0.1)	99.8(0.2)	99.9(0.2)	99.4(0.6)	99.6(0.4)	L
Post H.S.	100.0(0.0)	99.9(0.0)	100.0(0.0)	99.9(0.0)	100.0(0.1)	99.9(0.1)	99.8(0.2)	99.8(0.1)	L
Unknown	99.2(0.2)	99.1(0.3)	99.3(0.4)	99.5(0.2)	99.5(0.5)	99.1(0.6)	98.2(1.2)	97.6(1.3)	Q
TYPE OF SCHOOL									
Public	***** (0.0)	***** (0.0)	99.9(0.1)	99.8(0.1)	99.8(0.1)	99.7(0.1)	99.4(0.3)	99.4(0.2)	N
Non-Public	***** (0.0)	***** (0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	98.7(0.8)	N
QUARTILES									
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	LQ
Middle Two	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	L
Lower	99.0(0.2)	98.8(0.2)	99.5(0.2)*	99.3(0.2)	99.4(0.4)	99.1(0.4)	98.0(1.0)	97.4(0.7)#	Q

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

***** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 13

Average reading scale scores across assessment years

Weighted percentages of observations with average reading scale scores at or above 200

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	93.0(0.5)	93.2(0.4)	94.8(0.4)†*	93.9(0.3)*	94.9(0.6)*	93.8(0.6)	92.7(0.7)	91.7(0.6)	Q
GENDER									
Male	90.7(0.7)	90.9(0.5)	93.4(0.6)†*	92.2(0.4)*	92.8(1.0)	91.4(0.9)	90.4(1.1)	88.8(1.1)	Q
Female	95.2(0.4)	95.5(0.4)	96.1(0.4)	95.8(0.3)	96.9(0.6)	96.3(0.6)	95.0(0.7)	94.9(0.6)	Q
RACE/ETHNICITY									
White	96.2(0.3)	96.4(0.2)	97.1(0.2)*	96.2(0.3)	96.0(0.6)	96.0(0.6)	95.9(0.6)	95.0(0.7)	LQ
Black	74.2(1.7)	76.9(1.3)	84.1(1.7)†	85.5(1.0)†	91.3(2.2)†*	87.7(2.3)†	82.0(2.7)	80.6(2.3)	LQ
Hispanic	***** (0.0)	81.3(2.3)	86.8(2.4)	86.7(1.5)	87.4(2.6)	85.8(2.4)	83.4(3.5)	82.4(2.7)	Q
Other	92.3(2.2)	93.3(2.0)	93.4(2.6)	95.1(1.3)	99.0(1.4)	93.3(4.2)	94.8(2.0)	90.8(4.9)	N
GRADE									
Below Modal Grade	81.3(1.1)*	82.1(0.9)*	87.3(1.2)†	87.0(0.6)†	90.0(1.1)†	88.3(1.3)†	85.7(1.6)	86.2(1.2)#	LQ
At Modal Grade	97.4(0.3)	97.4(0.2)	97.7(0.3)*	97.7(0.2)*	97.9(0.5)	97.4(0.3)	98.0(0.3)*	96.1(0.5)#	Q
Above Modal Grade	98.6(1.2)	96.2(3.7)*	98.8(2.3)*	100.0(0.0)	96.7(6.2)*	100.0(0.0)	100.0(0.0)	*** (***)	N
REGION									
Northeast	95.2(0.8)	94.0(0.7)	95.6(0.8)	95.4(0.3)	95.1(1.3)	95.1(1.1)	92.8(2.0)	95.9(0.7)	N
Southeast	87.2(1.4)	89.9(1.0)	92.0(0.8)†	92.8(0.6)†	95.9(1.1)†*	92.8(2.0)	90.1(1.9)	90.2(1.3)	LQ
Central	95.4(0.7)	95.8(0.4)	97.1(0.6)	95.5(0.5)	94.6(1.2)	95.0(0.8)	94.7(1.5)	92.3(1.7)	LQ
West	93.4(0.8)	92.4(1.0)	94.2(1.1)	92.6(0.7)	94.0(1.2)	92.7(0.9)	92.9(0.9)	89.6(1.6)#	N
PARENTS' EDUCATION LEVEL									
Less Than H.S.	86.6(1.3)	85.7(1.0)	87.8(1.1)	88.0(0.9)	93.3(2.0)†*	88.3(2.6)	87.8(2.9)	83.2(2.9)	Q
Graduated H.S.	94.9(0.5)*	94.6(0.4)*	95.1(0.5)*	93.9(0.5)	95.0(0.8)*	93.7(0.9)	91.1(1.6)	90.9(1.2)#	LQ
Post H.S.	98.0(0.2)*	97.7(0.3)*	98.2(0.3)*	97.1(0.2)†	96.5(0.6)	96.6(0.6)	96.1(0.5)†	95.8(0.6)#	L
Unknown	82.2(1.2)	83.3(1.0)	83.9(1.5)	84.3(1.0)	87.5(2.9)	86.3(2.9)	81.1(3.1)	78.3(3.7)	Q
TYPE OF SCHOOL									
Public	***** (0.0)	***** (0.0)	94.3(0.5)*	93.4(0.3)*	94.5(0.6)*	93.2(0.7)	91.8(0.8)†	91.1(0.7)#	LQ
Non-Public	***** (0.0)	***** (0.0)	98.5(0.5)	98.3(0.4)	97.8(1.0)	98.6(0.5)	98.4(0.8)	96.8(1.4)	N
QUARTILES									
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	99.8(0.1)	100.0(0.0)	99.8(0.1)	99.9(0.1)	99.9(0.1)	99.9(0.1)	99.9(0.1)	99.7(0.2)	N
Lower	72.3(1.2)	72.7(1.0)	79.5(1.1)†*	75.2(0.7)*	79.6(1.9)†*	75.6(1.9)*	71.0(2.3)	67.5(1.7)#	Q

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

***** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 13

Average reading scale scores across assessment years

Weighted percentages of observations with average reading scale scores at or above 250

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	57.8(1.1)	58.6(1.0)	60.7(1.1)	59.0(0.6)	58.7(1.3)	58.7(1.0)	61.6(1.4)	60.4(1.2)	N
GENDER									
Male	51.6(1.2)	51.7(1.1)	55.9(1.2)	54.0(0.8)	52.3(1.9)	52.4(1.5)	55.5(2.0)	53.3(1.9)	N
Female	64.0(1.1)	65.5(1.2)	65.4(1.1)	64.0(0.7)	65.0(1.4)	65.0(1.5)	67.5(1.4)	67.9(1.7)	N
RACE/ETHNICITY									
White	64.2(0.9)	65.5(0.9)	67.8(0.8)†	65.3(0.7)	63.7(1.5)	64.8(1.2)	68.5(1.4)	68.1(1.3)#	N
Black	21.1(1.2)*	24.8(1.6)*	30.1(2.0)†	34.6(1.2)†	40.2(2.3)†	41.7(3.5)†	38.4(2.7)†	35.6(3.5)#	LQ
Hispanic	***** (0.0)	32.0(3.6)	35.4(2.6)	39.0(2.1)	38.0(4.4)	37.2(2.9)	40.9(5.1)	33.9(3.9)	N
Other	51.3(4.6)	55.8(4.4)	55.5(7.5)	63.8(3.8)	66.9(6.1)	52.6(7.9)	68.2(4.0)†	61.9(5.5)	L
GRADE									
Below Modal Grade	27.1(1.1)*	31.2(1.2)*	38.7(1.7)†	38.5(1.0)†*	41.0(1.8)†	42.9(1.7)†	44.3(2.2)†	45.8(2.2)#	L
At Modal Grade	69.4(1.0)	68.9(0.9)	69.6(1.1)	70.1(0.6)	70.0(1.5)	68.8(1.2)	74.3(1.5)†	71.6(1.0)	L
Above Modal Grade	84.2(2.8)	79.4(5.1)*	79.0(6.3)*	84.1(6.7)*	64.2(9.0)*	83.0(13.1)*	96.7(3.1)†*	*** (***)	N
REGION									
Northeast	64.6(2.3)	62.1(2.2)	62.6(2.1)	63.2(1.1)*	59.2(2.5)*	60.8(2.6)*	65.9(3.1)	71.2(2.6)	Q
Southeast	46.3(2.0)	50.8(1.7)	54.5(1.9)†	57.9(1.7)†	57.7(3.5)†	57.3(2.4)†	55.7(3.1)	54.6(2.8)#	LQ
Central	63.3(2.3)	64.7(1.8)	67.2(2.0)	60.8(1.4)	57.9(2.3)	59.4(2.4)	65.5(2.9)	62.8(3.9)	N
West	55.7(1.7)	55.2(2.1)	58.2(2.2)	55.3(0.8)	59.9(2.8)	57.5(2.0)	59.5(2.2)	55.2(2.4)	N
PARENTS' EDUCATION LEVEL									
Less Than H.S.	37.9(1.5)	39.2(1.6)	37.3(1.5)	39.7(1.4)	44.9(3.5)	40.6(3.5)	38.7(3.3)	37.9(3.1)	N
Graduated H.S.	58.7(1.2)	57.0(1.1)	55.3(1.2)	55.6(0.9)	54.5(1.9)	52.6(1.7)†	54.5(2.0)	53.7(1.7)#	L
Post H.S.	75.1(0.9)	74.3(1.0)	74.9(0.9)	70.6(0.8)†	67.5(2.2)†	70.4(1.3)†	71.8(1.7)	71.2(1.7)#	L
Unknown	32.1(1.4)	34.4(1.3)	31.5(2.4)	36.1(1.8)	36.5(4.3)	35.8(2.7)	37.2(2.8)	31.8(3.2)	—
TYPE OF SCHOOL									
Public	***** (0.0)	***** (0.0)	58.9(1.2)	57.0(0.7)	57.1(1.4)	56.7(1.2)	59.0(1.5)	58.1(1.4)	N
Non-Public	***** (0.0)	***** (0.0)	74.7(1.9)	74.2(1.9)	71.7(3.5)	72.9(4.7)	78.0(2.2)	78.2(3.3)	N
QUARTILES									
Upper	98.6(0.2)	99.6(0.1)†	97.7(0.2)*	99.0(0.2)	99.0(0.6)	99.2(0.3)	99.4(0.4)	99.5(0.3)#	L
Middle Two	64.4(0.9)	66.6(0.9)	68.7(0.5)†	65.7(0.6)	65.7(1.8)	65.4(1.3)	70.7(1.4)†	68.8(1.6)#	L
Lower	3.9(0.4)	1.4(0.2)†*	7.9(0.7)†*	4.3(0.4)	4.5(1.1)	4.6(0.9)	5.7(1.1)	4.3(0.7)	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

***** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 13

Average reading scale scores across assessment years

Weighted percentages of observations with average reading scale scores at or above 300

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	9.8(0.5)*	10.2(0.5)*	11.3(0.5)*	11.0(0.4)*	10.9(0.8)*	11.0(0.6)*	15.3(0.9)†	14.1(0.8)#	LQ
GENDER									
Male	7.3(0.5)*	7.0(0.4)*	9.1(0.7)	9.0(0.4)†	8.6(0.9)	7.6(0.8)	12.8(1.1)†	10.1(0.7)#	L
Female	12.3(0.6)*	13.5(0.7)*	13.5(0.6)*	13.2(0.5)*	13.2(0.9)*	14.5(0.9)*	17.7(1.1)†	18.4(1.1)#	LQ
RACE/ETHNICITY									
White	11.3(0.5)*	12.1(0.5)*	13.6(0.6)†*	13.1(0.5)*	12.4(0.9)*	13.3(0.9)*	18.1(1.1)†	17.2(1.0)#	LQ
Black	0.8(0.2)	1.5(0.3)	1.8(0.5)	2.8(0.5)†	4.6(1.2)†	4.6(0.8)†	5.7(1.4)†	3.9(1.2)#	L
Hispanic	***** (0.0)	2.2(1.0)	2.3(0.6)	4.1(0.7)	4.4(1.9)	3.9(1.2)	6.0(1.9)	4.3(1.8)	L
Other	8.5(2.1)	11.2(2.3)	9.0(3.2)	12.2(2.9)	18.4(5.1)	8.3(3.2)	20.8(4.9)	15.9(4.1)	L
GRADE									
Below Modal Grade	1.4(0.3)*	2.1(0.3)*	3.6(0.5)†*	3.6(0.4)†*	4.1(0.9)†	4.8(0.5)†	6.4(0.9)†	6.9(0.8)#	L
At Modal Grade	12.9(0.6)*	13.2(0.6)*	14.4(0.7)*	15.0(0.5)†*	15.0(1.1)*	14.9(1.0)*	20.9(1.2)†	19.8(1.0)#	LQ
Above Modal Grade	22.4(3.9)	27.7(6.2)*	19.7(9.0)*	41.9(9.9)*	28.8(9.4)*	39.6(24.9)*	72.3(9.9)†*	*** (***)	N
REGION									
Northeast	12.5(1.1)*	11.1(1.3)*	11.8(1.1)*	12.5(0.4)*	12.5(1.7)*	12.1(1.4)*	19.7(2.4)†	20.5(1.7)#	LQ
Southeast	6.3(0.6)	8.1(0.7)	9.0(1.1)	11.8(1.2)†	10.8(1.8)	10.7(1.4)†	13.0(1.5)†	10.9(2.0)#	L
Central	11.6(1.0)	12.4(0.9)	14.3(0.7)	10.5(0.6)	9.1(1.3)	10.0(1.6)	16.6(2.3)	14.2(1.7)	N
West	8.2(0.7)	8.9(0.7)	10.0(1.0)	9.5(0.8)	11.4(1.4)	11.3(1.2)	12.5(1.2)†	12.1(1.5)#	L
PARENTS' EDUCATION LEVEL									
Less Than H.S.	3.0(0.5)	3.1(0.4)	2.6(0.6)	3.5(0.5)	4.9(1.7)	4.0(1.5)	3.4(2.6)	3.2(1.7)	N
Graduated H.S.	7.7(0.5)	7.8(0.5)	6.5(0.4)	7.5(0.6)	6.7(1.2)	7.1(0.9)	9.1(1.1)	8.4(1.3)	N
Post H.S.	17.0(0.8)	17.2(0.7)	18.0(0.8)	17.0(0.6)*	15.5(1.3)*	16.3(1.3)	21.4(1.5)	20.0(0.9)#	LQ
Unknown	2.7(0.3)	2.8(0.5)	2.1(0.5)	2.9(0.6)	4.6(1.2)	3.3(1.2)	4.5(1.4)	3.3(1.5)	—
TYPE OF SCHOOL									
Public	***** (0.0)	***** (0.0)	10.5(0.5)	10.0(0.4)*	10.1(0.8)	10.1(0.7)	13.6(1.0)†	12.6(0.8)#	LQ
Non-Public	***** (0.0)	***** (0.0)	17.4(1.5)*	19.0(1.6)	17.3(2.1)	17.2(3.0)	26.1(3.3)	26.6(3.2)#	LQ
QUARTILES									
Upper	35.3(0.8)*	39.4(1.1)†*	38.1(1.2)*	40.7(1.0)†*	39.8(2.4)*	40.9(2.0)*	54.0(2.4)†	50.2(1.9)#	LQ
Middle Two	1.9(0.2)	0.8(0.1)†*	3.6(0.3)†	1.7(0.2)*	1.9(0.4)	1.6(0.4)*	3.6(0.6)	3.2(0.5)#	L
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

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*** Sample size insufficient to permit a reliable estimate.

***** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 13

Average reading scale scores across assessment years

Weighted percentages of observations with average reading scale scores at or above 350

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	0.1(0.0)	0.2(0.0)	0.2(0.0)	0.3(0.1)	0.2(0.1)	0.4(0.1)	0.6(0.3)	0.5(0.1)#	L
GENDER									
Male	0.1(0.0)	0.1(0.1)	0.2(0.1)	0.2(0.1)	0.1(0.1)	0.2(0.1)	0.4(0.3)	0.3(0.2)	N
Female	0.2(0.1)	0.3(0.1)	0.3(0.1)	0.4(0.1)	0.4(0.2)	0.5(0.2)	0.8(0.3)	0.7(0.2)#	L
RACE/ETHNICITY									
White	0.2(0.1)	0.3(0.1)	0.3(0.1)	0.4(0.1)	0.3(0.1)	0.5(0.2)	0.8(0.3)	0.6(0.2)#	L
Black	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.1(0.3)	0.1(0.3)	0.1(0.2)	0.0(0.1)	N
Hispanic	*****(0.0)	0.0(0.0)	0.0(0.0)	0.1(0.1)	0.0(0.0)	0.1(0.2)	0.0(0.0)	0.1(0.2)	N
Other	0.2(0.0)	0.3(0.7)	0.3(0.8)	0.8(1.2)	1.2(0.0)	0.2(0.0)	1.7(0.0)	0.3(0.6)	N
GRADE									
Below Modal Grade	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.1(0.0)†	0.2(0.0)†	0.1(0.1)	L
At Modal Grade	0.2(0.1)	0.3(0.1)	0.3(0.1)	0.4(0.1)	0.3(0.1)	0.5(0.2)	0.8(0.3)	0.7(0.3)#	L
Above Modal Grade	0.4(0.4)	1.9(1.3)*	0.7(1.4)*	11.6(8.6)*	2.5(0.0)	3.6(7.9)*	9.9(9.3)*	***(***)	N
REGION									
Northeast	0.2(0.1)	0.3(0.1)	0.2(0.1)	0.3(0.1)	0.4(0.4)	0.5(0.3)	1.3(0.8)	1.1(0.4)#	L
Southeast	0.1(0.1)	0.1(0.1)	0.2(0.1)	0.4(0.1)	0.3(0.3)	0.4(0.2)	0.5(0.6)	0.3(0.3)	N
Central	0.2(0.1)	0.3(0.1)	0.3(0.1)	0.2(0.1)	0.0(0.0)	0.3(0.2)	0.4(0.4)	0.3(0.2)	N
West	0.1(0.0)	0.2(0.1)	0.2(0.1)	0.3(0.1)	0.2(0.2)	0.3(0.2)	0.5(0.4)	0.3(0.2)	N
PARENTS' EDUCATION LEVEL									
Less Than H.S.	0.0(0.0)*	0.0(0.0)	0.0(0.0)	0.1(0.1)	0.0(0.0)	0.0(0.0)	0.1(0.0)	0.1(0.0)#	L
Graduated H.S.	0.1(0.0)	0.1(0.1)	0.0(0.0)	0.1(0.1)	0.1(0.1)	0.1(0.1)	0.1(0.1)	0.2(0.3)	N
Post H.S.	0.3(0.1)	0.5(0.1)	0.4(0.1)	0.5(0.1)	0.4(0.1)	0.7(0.2)	1.0(0.4)	0.7(0.2)	L
Unknown	0.0(0.0)	0.0(0.0)	0.1(0.1)	0.1(0.0)	0.1(0.0)	0.1(0.0)	0.1(0.3)	0.0(0.0)	N
TYPE OF SCHOOL									
Public	*****(0.0)	*****(0.0)	0.2(0.0)	0.3(0.1)	0.2(0.1)	0.3(0.1)	0.5(0.3)	0.3(0.1)	N
Non-Public	*****(0.0)	*****(0.0)	0.5(0.2)	0.4(0.2)	0.3(0.0)	0.8(0.5)	1.2(0.8)	1.5(1.0)	N
QUARTILES									
Upper	0.6(0.2)	0.9(0.2)	0.9(0.2)	1.1(0.3)	0.9(0.3)	1.5(0.4)	2.5(1.0)	1.8(0.5)#	L
Middle Two	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons.

These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

*** Sample size insufficient to permit a reliable estimate.

**** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 17

Average reading scale scores across assessment years

Weighted percentages of observations with average reading scale scores at or above 150

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	99.6(0.1)	99.7(0.1)	99.9(0.1)†	100.0(0.0)†	100.0(0.0)†	99.9(0.1)	99.8(0.1)	99.8(0.1)	LQ
GENDER									
Male	99.4(0.1)	99.5(0.2)	99.8(0.1)†	99.9(0.0)†	100.0(0.0)†	99.8(0.3)	99.7(0.2)	99.7(0.2)	Q
Female	99.8(0.1)	99.8(0.1)	99.9(0.1)	99.9(0.1)	100.0(0.0)	100.0(0.1)	99.9(0.0)	99.9(0.1)	N
RACE/ETHNICITY									
White	99.9(0.0)	99.9(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)†	100.0(0.0)	99.9(0.0)	100.0(0.1)	N
Black	97.6(0.4)*	97.7(0.8)	99.0(0.3)†	99.9(0.1)†	100.0(0.0)†	99.6(0.8)	99.1(0.7)	99.5(0.6)#	LQ
Hispanic	***** (0.0)	99.3(0.4)	99.8(0.3)	99.8(0.2)	99.9(0.0)	99.7(0.0)	99.8(0.0)	99.0(1.3)	N
Other	99.6(0.7)	100.0(0.0)	99.8(0.7)	99.3(1.2)	100.0(0.0)	99.9(0.9)	99.6(1.0)	99.8(0.0)	N
GRADE									
Below Modal Grade	97.7(0.4)*	98.0(0.6)	99.1(0.3)	99.8(0.1)†	100.0(0.0)†	99.6(0.5)†	99.3(0.4)†	99.4(0.4)#	LQ
At Modal Grade	99.9(0.0)	100.0(0.0)	100.0(0.0)	99.9(0.1)	100.0(0.0)†	100.0(0.0)	100.0(0.0)	99.9(0.1)	N
Above Modal Grade	100.0(0.1)	99.9(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	99.9(0.0)	100.0(0.0)	N
REGION									
Northeast	99.8(0.1)	99.7(0.2)	99.9(0.0)	100.0(0.1)*	100.0(0.0)	99.9(0.0)	99.7(0.0)	99.8(0.0)	Q
Southeast	99.1(0.2)*	99.5(0.1)	99.8(0.1)†	99.8(0.2)	100.0(0.0)†	99.8(0.2)	99.7(0.3)	99.9(0.2)#	LQ
Central	99.8(0.1)	99.8(0.1)	99.9(0.1)	100.0(0.0)	100.0(0.0)	99.9(0.3)	99.8(0.0)	99.8(0.3)	N
West	99.7(0.1)	99.5(0.2)	99.9(0.1)	99.9(0.0)	100.0(0.0)	99.9(0.2)	99.8(0.1)	99.7(0.4)	N
PARENTS' EDUCATION LEVEL									
Less Than H.S.	99.2(0.2)	99.3(0.2)	99.7(0.1)	99.9(0.1)†	100.0(0.0)†	99.9(0.0)†	99.8(0.3)	99.3(0.8)	N
Graduated H.S.	99.8(0.1)	99.7(0.2)	99.8(0.1)	100.0(0.0)*	100.0(0.0)†	100.0(0.2)	99.9(0.2)	99.8(0.0)	N
Post H.S.	100.0(0.0)	99.9(0.1)	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.1)	99.8(0.0)†	100.0(0.1)	N
Unknown	98.0(0.5)	97.7(0.9)	98.9(0.6)	99.8(0.2)†	100.0(0.0)†	98.5(3.0)	99.5(0.8)	98.8(1.4)	N
TYPE OF SCHOOL									
Public	***** (0.0)	***** (0.0)	99.9(0.1)	99.9(0.0)	100.0(0.0)	99.9(0.1)	99.8(0.1)	99.8(0.2)	N
Non-Public	***** (0.0)	***** (0.0)	100.0(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	99.9(0.0)	100.0(0.0)	N
QUARTILES									
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Lower	98.4(0.2)	98.6(0.4)	99.4(0.2)†	99.8(0.1)†	100.0(0.0)†	99.5(0.6)	99.1(0.5)	99.2(0.6)	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

***** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 17

Average reading scale scores across assessment years

Weighted percentages of observations with average reading scale scores at or above 200

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	96.0(0.3)	96.4(0.3)	97.2(0.3)†	98.3(0.1)†*	98.9(0.3)†*	98.1(0.3)†	97.1(0.4)	96.8(0.5)	LQ
GENDER									
Male	94.7(0.4)	95.3(0.4)	96.3(0.5)	97.6(0.2)†	98.5(0.5)†*	97.0(0.6)†	96.3(0.7)	95.5(0.9)	LQ
Female	97.3(0.3)	97.5(0.4)	98.1(0.3)	99.0(0.1)†	99.3(0.3)†	99.2(0.3)†	97.9(0.4)	98.0(0.5)	LQ
RACE/ETHNICITY									
White	97.9(0.2)	98.6(0.1)†	99.1(0.1)†	99.0(0.1)†	99.3(0.3)†*	98.8(0.2)†	98.6(0.3)	98.1(0.4)	Q
Black	81.9(1.5)*	82.0(1.8)*	85.6(1.7)*	95.9(0.5)†	98.0(1.0)†	95.7(1.3)†	91.6(1.6)†	93.4(2.0)#	LQ
Hispanic	***** (0.0)	88.7(2.4)	93.3(1.8)	95.6(0.7)†	96.3(2.4)	95.9(2.1)	93.4(2.3)	91.1(3.4)	Q
Other	95.2(1.7)	96.4(1.8)	97.9(1.5)	96.6(1.1)	98.5(1.6)	98.3(1.4)	95.1(2.0)	97.0(2.0)	N
GRADE									
Below Modal Grade	81.8(1.1)*	83.9(1.4)*	86.5(1.6)*	94.4(0.5)†	97.1(1.2)†	94.2(1.0)†	92.2(1.0)†	92.2(1.4)#	LQ
At Modal Grade	98.2(0.2)	98.6(0.2)	98.9(0.2)	99.3(0.1)†	99.5(0.2)†	99.4(0.2)†	99.0(0.3)	98.8(0.3)	LQ
Above Modal Grade	99.0(0.2)	99.1(0.3)	99.3(0.2)	99.6(0.2)	99.6(0.4)	99.6(0.4)	98.6(1.1)	97.6(1.4)	—
REGION									
Northeast	97.3(0.4)	97.1(0.5)	97.5(0.5)	98.6(0.3)	99.3(0.5)†	98.9(0.5)	98.1(0.9)	97.1(0.8)	Q
Southeast	92.2(1.0)*	94.2(0.6)	95.6(1.0)	98.0(0.3)†	98.6(0.5)†	97.5(1.0)†	95.1(1.1)	96.8(1.0)#	LQ
Central	97.4(0.4)	97.7(0.4)	97.8(0.6)	98.7(0.2)†	99.5(0.6)†	98.2(0.5)	98.7(0.6)	96.5(1.7)	—
West	96.1(0.6)	95.9(0.9)	97.6(0.5)	98.0(0.3)†	98.5(0.6)†	97.8(0.8)	96.6(0.8)	96.6(0.9)	Q
PARENTS' EDUCATION LEVEL									
Less Than H.S.	91.2(0.8)	92.3(0.8)	93.1(0.8)	96.5(0.4)†	97.6(1.2)†	96.3(1.8)	94.3(1.7)	94.3(2.1)	LQ
Graduated H.S.	96.7(0.3)	97.0(0.6)	97.0(0.4)	98.1(0.2)†	98.8(0.4)†	98.2(0.6)	96.8(0.7)	95.9(1.1)	Q
Post H.S.	99.1(0.1)	99.0(0.2)	99.2(0.2)	99.3(0.1)	99.6(0.2)*	99.2(0.3)	98.1(0.5)	98.4(0.4)	LQ
Unknown	88.0(1.6)	79.6(2.3)†	85.2(3.2)	92.8(1.4)	92.8(6.1)	84.6(4.5)	90.4(4.8)	82.2(5.3)	N
TYPE OF SCHOOL									
Public	***** (0.0)	***** (0.0)	97.1(0.4)	98.1(0.1)†*	98.8(0.3)†*	98.0(0.3)	96.8(0.4)	96.6(0.5)	Q
Non-Public	***** (0.0)	***** (0.0)	99.0(0.4)	99.6(0.2)	99.8(0.1)	99.6(0.6)	99.3(0.7)	97.9(1.5)	N
QUARTILES									
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	100.0(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Lower	84.1(0.8)	85.8(1.0)	89.0(1.0)†	93.2(0.5)†*	95.8(1.2)†*	92.4(1.2)†	88.3(1.5)	87.1(1.8)	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

***** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 17

Average reading scale scores across assessment years

Weighted percentages of observations with average reading scale scores at or above 250

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	78.6(0.9)	80.1(0.7)	80.7(0.9)	83.1(0.5)†	85.7(0.8)†*	84.1(1.0)†	82.5(0.8)†	80.8(1.0)	LQ
GENDER									
Male	74.4(1.0)	75.6(0.8)	77.9(1.0)	79.6(0.6)†	82.9(1.4)†*	79.7(1.4)†	78.4(1.2)	76.2(1.5)	LQ
Female	82.6(1.0)	84.3(0.9)	83.6(1.0)	86.8(0.6)†	88.2(1.1)†	88.6(1.0)†	86.8(1.1)†	85.6(1.2)	L
RACE/ETHNICITY									
White	83.7(0.7)	86.2(0.6)	86.9(0.6)†	88.0(0.5)†	88.7(0.9)†	88.3(1.1)†	88.0(0.9)†	86.2(1.1)	LQ
Black	40.1(1.6)*	43.0(1.6)*	44.0(2.0)*	65.7(1.2)†	75.8(2.4)†	69.1(2.8)†	61.4(2.3)†	65.7(4.1)#	LQ
Hispanic	***** (0.0)	52.9(4.1)	62.2(3.1)	68.3(2.1)†	71.5(4.8)†	75.2(4.7)†	69.2(4.0)†	63.0(4.4)	LQ
Other	72.1(4.4)	70.4(4.8)	77.0(3.6)	77.8(2.6)	86.5(6.4)	83.0(4.5)	79.3(3.8)	77.2(6.7)	L
GRADE									
Below Modal Grade	40.0(1.7)*	44.3(1.9)*	45.6(2.4)*	60.2(1.2)†	66.5(2.5)†	63.5(2.5)†	62.8(1.9)†	60.5(2.4)#	LQ
At Modal Grade	84.1(0.8)*	85.9(0.6)*	86.0(0.8)*	89.0(0.4)†	91.1(0.9)†	91.2(0.8)†	90.6(0.8)†	89.4(0.8)#	L
Above Modal Grade	89.5(1.0)	90.1(1.0)	89.9(1.1)	92.0(0.8)	94.4(2.0)	93.4(1.8)	87.8(2.5)	87.8(3.3)	Q
REGION									
Northeast	82.4(2.0)	82.6(1.5)	80.9(1.9)	85.5(1.1)	88.5(1.9)	86.2(1.1)	86.1(2.0)	85.8(2.3)	L
Southeast	67.8(2.0)*	73.1(1.3)	76.2(2.3)†	80.1(1.1)†	82.6(2.1)†	80.8(2.0)†	74.4(2.5)	78.1(2.7)#	LQ
Central	82.8(1.4)	84.9(1.2)	82.8(1.7)	84.6(1.1)	87.3(1.7)	86.9(1.6)	87.1(1.7)	80.2(3.1)	N
West	78.2(1.5)	77.2(1.7)	81.9(1.3)	83.4(0.8)†	84.4(1.6)†	82.6(2.4)	82.8(1.5)	79.9(1.7)	LQ
PARENTS' EDUCATION LEVEL									
Less Than H.S.	60.8(1.4)*	63.3(1.4)	63.4(1.8)	70.0(1.2)†	68.8(3.4)	71.2(2.9)†	69.1(3.1)	68.9(2.5)#	L
Graduated H.S.	78.5(1.1)	79.3(0.9)	76.5(1.1)	79.7(0.8)	82.1(1.3)*	81.3(1.6)*	77.9(1.6)	74.0(2.0)#	Q
Post H.S.	90.0(0.6)	89.7(0.6)	89.8(0.6)	90.6(0.4)	91.7(0.9)*	89.8(1.0)	87.9(1.0)	87.4(1.1)#	Q
Unknown	61.4(4.3)	42.6(2.5)†	51.2(3.1)	56.7(2.3)	54.0(7.3)	47.8(5.2)	55.0(8.5)	44.3(8.0)	N
TYPE OF SCHOOL									
Public	***** (0.0)	***** (0.0)	79.9(1.0)	82.1(0.5)	84.6(0.8)†*	83.3(1.0)	81.3(0.8)	79.7(1.2)	Q
Non-Public	***** (0.0)	***** (0.0)	90.3(1.8)	92.3(1.3)	92.9(1.9)	95.0(1.9)	94.1(2.3)	90.0(2.9)	N
QUARTILES									
Upper	99.8(0.1)	100.0(0.0)	99.7(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.1)	100.0(0.0)	L
Middle Two	93.7(0.5)	96.1(0.4)†	93.5(0.4)	96.9(0.2)†	98.0(0.4)†	97.4(0.6)†	97.1(0.6)†	95.8(0.8)#	LQ
Lower	27.1(1.0)	28.2(1.1)	36.0(1.4)†	38.7(0.8)†*	46.6(2.7)†*	41.7(3.4)†	35.6(2.1)†	31.7(1.9)#	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

***** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 17

Average reading scale scores across assessment years

Weighted percentages of observations with average reading scale scores at or above 300

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	39.0(1.0)	38.7(0.8)	37.8(1.1)	40.3(0.8)	40.9(1.5)	41.4(1.0)	43.2(1.1)†	41.0(1.2)	L
GENDER									
Male	33.9(1.1)	33.7(1.0)	35.0(1.3)	35.4(0.8)	37.1(2.3)	36.1(1.5)	38.4(1.6)	35.6(1.9)	L
Female	44.0(1.2)	43.6(0.9)	40.7(1.2)*	45.0(0.9)	44.4(2.0)	46.8(1.3)	48.5(1.5)	46.5(1.5)	LQ
RACE/ETHNICITY									
White	43.2(0.9)	43.9(0.8)	43.3(1.1)	46.3(0.9)	45.4(1.6)	47.5(1.2)†	50.1(1.4)†	47.7(1.4)#	L
Black	7.7(0.9)*	8.1(0.7)*	7.1(0.8)*	16.2(0.9)†	24.9(3.1)†	19.7(1.8)†	16.9(2.5)†	21.5(3.7)#	L
Hispanic	***** (0.0)	12.6(2.7)	16.5(2.1)	21.2(2.3)	23.3(3.7)	27.1(3.3)†	27.3(3.2)†	20.1(3.0)	L
Other	31.7(3.4)	28.1(4.1)	32.3(3.7)	38.3(3.3)	40.3(5.7)	40.4(6.1)	42.5(6.4)	39.2(7.8)	L
GRADE									
Below Modal Grade	7.4(0.8)*	7.7(0.8)*	7.8(1.0)*	13.5(0.9)†	15.7(2.5)†	14.8(1.7)†	17.8(1.7)†	17.1(1.9)#	L
At Modal Grade	42.6(1.0)*	43.0(0.8)*	41.6(1.2)*	46.0(0.8)	47.2(1.8)	49.4(1.1)†	53.3(1.5)†	49.9(1.4)#	LQ
Above Modal Grade	53.3(1.8)	52.4(1.1)	51.3(2.2)	55.5(1.5)	57.1(4.6)	61.9(3.6)	53.5(3.8)	60.2(5.2)	L
REGION									
Northeast	44.3(2.6)	41.6(1.4)	38.0(2.6)	42.9(2.3)	46.9(3.1)	46.6(2.2)	51.0(3.1)	49.0(3.7)	LQ
Southeast	28.2(1.6)	31.8(1.4)	33.8(1.8)	36.4(1.6)†	36.4(2.5)†	36.9(2.7)†	33.5(2.3)	35.7(2.7)#	LQ
Central	43.2(1.9)	43.6(1.5)	39.0(2.4)	41.4(1.6)	40.2(4.2)	44.5(2.4)	45.4(2.7)	38.7(3.0)	N
West	37.2(1.5)	35.4(1.5)	39.6(2.2)	40.4(1.2)	40.3(2.4)	38.0(2.8)	44.0(2.5)	41.7(2.7)	L
PARENTS' EDUCATION LEVEL									
Less Than H.S.	19.5(1.0)	19.0(1.2)	17.0(1.3)	21.1(1.2)	17.6(3.9)	20.4(2.6)	26.0(3.4)	21.7(3.9)	N
Graduated H.S.	35.9(1.1)*	33.2(0.8)	29.3(0.9)†	31.6(0.9)†	30.9(1.7)	32.3(1.6)	33.8(2.2)	28.9(2.1)#	L
Post H.S.	53.4(1.1)	52.1(1.0)	50.2(1.1)	53.0(1.0)	50.8(1.9)	51.1(1.2)	51.5(1.4)	50.4(1.3)	N
Unknown	22.6(3.3)*	9.2(1.7)†	12.4(2.1)	13.6(2.0)	14.5(5.7)	11.5(3.7)	14.0(3.6)	9.9(3.2)#	N
TYPE OF SCHOOL									
Public	***** (0.0)	***** (0.0)	36.8(1.2)	38.7(0.7)	39.5(1.6)	39.8(1.0)	41.3(1.0)†	39.1(1.4)	L
Non-Public	***** (0.0)	***** (0.0)	49.9(3.3)	54.4(2.3)	50.4(5.7)	63.0(5.9)	62.6(5.3)	57.3(5.2)	L
QUARTILES									
Upper	89.0(0.8)*	93.1(0.5)†	85.2(0.7)†*	90.9(0.5)	91.9(1.1)	93.6(1.4)†	93.5(1.1)†	93.9(1.1)#	LQ
Middle Two	33.3(0.8)	30.8(1.0)	32.5(0.8)	34.0(0.8)	35.6(2.1)	35.8(1.3)	39.5(1.5)†	34.8(1.2)	L
Lower	0.5(0.2)	0.1(0.1)	1.1(0.3)	0.5(0.1)	0.5(0.3)	0.6(0.4)	0.5(0.5)	0.5(0.3)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

***** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 17

Average reading scale scores across assessment years

Weighted percentages of observations with average reading scale scores at or above 350

	1971	1975	1980	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	6.8(0.4)	6.2(0.3)	5.3(0.4)†	5.7(0.3)	4.6(0.6)†*	7.0(0.5)	6.8(0.6)	7.3(0.7)	Q
GENDER									
Male	5.2(0.4)	5.1(0.5)	4.5(0.4)	4.8(0.4)	3.5(0.9)	5.6(0.5)	5.3(0.7)	5.4(0.9)	N
Female	8.4(0.5)	7.3(0.4)	6.0(0.6)†*	6.7(0.4)	5.5(0.8)†*	8.5(0.7)	8.4(0.7)	9.2(0.9)	Q
RACE/ETHNICITY									
White	7.7(0.4)	7.2(0.4)	6.2(0.4)	6.9(0.4)	5.5(0.7)†*	8.7(0.6)	8.3(0.8)	8.8(0.9)	Q
Black	0.4(0.1)	0.4(0.3)	0.2(0.2)	0.9(0.3)	1.4(0.7)	1.5(1.0)	1.6(0.9)	2.3(1.2)	L
Hispanic	***** (0.0)	1.2(0.6)	1.3(0.4)	2.0(0.4)	1.3(1.2)	2.4(1.4)	2.3(0.8)	1.9(1.1)	N
Other	4.0(1.9)	3.8(3.2)	3.8(2.5)	7.0(1.2)	4.2(3.0)	6.2(2.6)	7.1(2.3)	9.5(5.4)	N
GRADE									
Below Modal Grade	0.5(0.2)	0.3(0.1)	0.3(0.2)	0.6(0.2)	1.4(0.7)	1.0(0.2)	0.8(0.4)	1.2(0.7)	L
At Modal Grade	7.1(0.4)	6.7(0.4)	5.7(0.4)*	6.6(0.3)	5.2(0.7)*	8.4(0.6)	9.0(0.7)	9.1(1.0)	LQ
Above Modal Grade	12.1(1.3)	11.0(1.0)	9.5(1.7)	10.1(1.0)	7.3(2.9)	14.7(2.6)	10.9(3.1)	15.7(3.8)	Q
REGION									
Northeast	8.7(1.1)	7.6(1.0)	5.6(0.7)	6.1(0.6)	5.6(1.6)	9.5(1.2)	9.5(1.8)	11.4(2.5)	Q
Southeast	3.9(0.6)	4.5(0.5)	4.4(0.9)	5.3(0.5)	4.1(1.3)	5.8(1.1)	4.3(1.2)	5.5(1.5)	N
Central	7.8(0.8)	7.1(0.5)	5.0(0.6)†	5.6(0.5)	4.4(0.7)†	7.4(1.2)	6.2(0.7)	6.0(1.0)	Q
West	6.0(0.6)	5.1(0.5)	5.8(0.7)	5.8(0.7)	4.2(0.8)	5.7(1.0)	7.3(1.0)	6.7(1.1)	N
PARENTS' EDUCATION LEVEL									
Less Than H.S.	1.9(0.3)	1.6(0.3)	1.0(0.3)	1.4(0.3)	1.0(0.7)	1.8(0.8)	2.4(1.4)	1.3(0.8)	N
Graduated H.S.	4.9(0.4)*	3.8(0.4)	2.6(0.2)†	2.9(0.3)†	1.8(0.7)†	3.9(0.7)	3.2(0.5)	2.8(0.7)#	LQ
Post H.S.	11.3(0.6)	10.1(0.6)	8.3(0.6)†	8.9(0.5)†	6.7(1.0)†	9.8(0.7)	9.4(0.8)	10.3(1.0)	Q
Unknown	2.6(0.4)*	0.3(0.0)†	1.1(1.1)	0.6(0.3)†	0.2(0.0)†	0.3(0.5)†	0.8(1.5)	0.4(0.0)#	L
TYPE OF SCHOOL									
Public	***** (0.0)	***** (0.0)	5.1(0.4)	5.3(0.3)	4.4(0.6)	6.5(0.5)	6.2(0.6)	6.3(0.5)#	L
Non-Public	***** (0.0)	***** (0.0)	7.7(1.3)	9.2(1.0)	5.6(2.4)	13.7(2.7)	13.1(2.9)	15.4(3.7)	L
QUARTILES									
Upper	24.9(0.9)	24.5(0.9)	18.7(1.0)†*	21.7(1.1)	17.6(2.1)†*	26.9(1.6)	26.1(2.0)	27.9(2.3)	Q
Middle Two	1.2(0.2)	0.2(0.1)†	1.2(0.2)	0.5(0.1)†	0.3(0.2)†	0.6(0.3)	0.6(0.3)	0.6(0.3)	N
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

Significance tests for extreme percentages (either >90 or <10 percent) should be interpreted with caution.

***** No data were available.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 9

Weighted means, standard deviations, and percentiles of reading distributions with jackknifed standard errors

	1971	1975	1980	1984	1988	1990	1992	1994
TOTAL SAMPLE								
Mean	207.6(1.0)	210.0(0.7)	215.0(1.0)	211.0(0.9)	211.8(1.1)	209.2(1.2)	210.5(0.9)	211.0(1.2)
St. Dev.	42.1(0.4)	38.6(0.3)	37.9(0.4)	41.1(0.4)	41.2(1.0)	44.7(0.8)	40.3(0.6)	40.5(0.8)
Percentiles								
5	134.8(2.0)	143.2(1.3)	148.5(1.6)	140.5(1.2)	141.9(3.6)	134.8(3.2)	140.7(1.6)	140.1(2.6)
10	151.6(1.6)	159.2(1.1)	165.1(1.4)	156.7(1.2)	156.7(2.1)	150.1(1.9)	156.0(1.5)	155.6(2.5)
25	180.0(1.3)	185.2(0.8)	191.1(1.2)	183.7(1.2)	184.3(1.8)	178.7(1.8)	183.1(1.5)	184.1(1.9)
50	209.3(1.0)	211.9(0.8)	217.2(0.9)	212.6(1.0)	213.7(1.4)	210.3(1.5)	213.6(0.9)	214.8(1.1)
75	236.7(1.0)	236.5(0.9)	241.3(1.0)	239.6(0.9)	240.1(1.3)	240.3(1.8)	239.3(1.2)	240.0(1.5)
90	260.5(0.8)	258.1(0.8)	261.7(1.1)	262.8(0.9)	263.0(1.7)	265.7(1.8)	259.9(1.2)	260.1(1.6)
95	274.1(0.9)	270.6(1.1)	273.3(1.6)	276.5(1.4)	277.5(2.0)	280.4(1.3)	272.1(1.2)	271.7(1.5)
MALE STUDENTS								
Mean	201.2(1.1)	204.3(0.8)	210.0(1.1)	207.5(1.0)	207.5(1.4)	204.0(1.7)	205.9(1.3)	207.3(1.3)
St. Dev.	42.1(0.5)	39.0(0.5)	38.7(0.5)	42.3(0.5)	42.7(1.2)	45.1(1.0)	41.3(0.6)	41.9(1.0)
Percentiles								
5	128.9(2.0)	136.6(1.1)	141.9(2.3)	136.0(1.1)	136.5(2.9)	129.6(5.8)	136.6(2.0)	136.0(1.7)
10	145.0(1.7)	152.6(1.3)	158.7(1.4)	151.1(1.5)	151.1(2.4)	145.1(1.9)	150.5(2.1)	150.5(2.2)
25	173.6(1.4)	178.9(1.0)	185.3(1.4)	178.5(1.1)	178.4(1.8)	172.2(2.8)	176.8(1.7)	178.9(3.2)
50	202.8(1.2)	206.1(0.9)	212.5(1.2)	209.1(1.3)	209.7(1.8)	204.4(2.2)	208.3(1.6)	210.6(1.6)
75	230.4(1.1)	231.4(1.0)	237.1(1.1)	237.7(1.2)	237.1(1.9)	236.1(1.9)	235.5(1.6)	237.3(2.0)
90	254.6(1.2)	253.0(1.1)	257.5(0.8)	261.1(1.1)	260.3(2.0)	261.7(2.6)	257.3(1.0)	259.6(1.9)
95	268.4(1.5)	265.4(1.4)	268.7(1.1)	275.1(1.1)	275.1(2.3)	276.1(5.6)	269.9(2.8)	271.4(4.1)
FEMALE STUDENTS								
Mean	213.9(1.0)	215.8(0.8)	220.1(1.1)	214.4(0.9)	216.3(1.3)	214.5(1.2)	215.4(0.9)	214.7(1.4)
St. Dev.	41.0(0.6)	37.3(0.4)	36.5(0.5)	39.6(0.5)	39.2(1.2)	43.6(1.3)	38.8(0.9)	38.7(1.1)
Percentiles								
5	142.9(2.1)	151.3(1.4)	157.1(1.8)	146.4(2.1)	149.3(5.5)	140.6(3.9)	147.3(3.3)	145.9(3.0)
10	159.5(1.3)	167.1(1.1)	172.5(1.7)	162.9(1.6)	164.3(4.6)	156.8(3.2)	163.8(2.3)	162.2(2.7)
25	186.7(1.2)	192.0(1.0)	197.2(1.2)	188.7(1.0)	190.6(2.4)	185.7(1.7)	190.0(1.4)	189.4(2.1)
50	215.6(1.1)	217.2(0.9)	221.7(1.1)	215.7(1.0)	217.5(2.0)	215.9(1.3)	218.5(1.3)	218.6(1.7)
75	242.4(1.1)	241.1(1.0)	245.2(1.1)	241.6(1.0)	242.6(1.1)	244.4(1.9)	242.5(1.3)	241.9(1.7)
90	265.0(0.9)	262.3(1.0)	265.5(1.7)	264.4(1.3)	265.3(2.2)	269.4(1.9)	262.3(1.9)	260.6(1.9)
95	278.6(1.5)	274.8(1.1)	277.0(1.5)	277.8(2.0)	279.1(3.4)	284.1(2.1)	273.7(2.0)	272.0(1.3)
WHITE STUDENTS								
Mean	214.0(0.9)	216.6(0.7)	221.3(0.8)	218.2(0.9)	217.7(1.4)	217.0(1.3)	217.9(1.0)	218.0(1.3)
St. Dev.	39.4(0.4)	36.1(0.3)	35.2(0.3)	38.8(0.3)	39.3(1.0)	42.9(1.0)	37.5(0.7)	37.4(0.9)
Percentiles								
5	146.3(2.4)	154.4(1.2)	160.7(1.5)	152.0(1.3)	150.2(3.4)	144.2(3.2)	152.8(1.6)	152.4(2.0)
10	162.4(1.3)	169.8(1.1)	175.3(1.0)	167.1(1.0)	165.0(3.9)	160.0(1.5)	167.0(1.8)	167.5(2.6)
25	188.1(1.2)	193.3(0.7)	199.0(0.9)	192.4(1.0)	191.8(2.4)	188.0(2.8)	192.8(1.3)	193.7(1.8)
50	215.2(0.9)	217.9(0.7)	222.8(0.8)	219.5(1.0)	219.1(1.2)	218.4(2.1)	220.6(1.3)	221.1(1.4)
75	241.0(0.9)	241.0(0.9)	245.7(0.9)	244.9(0.9)	244.3(1.8)	246.7(2.3)	244.2(1.2)	244.0(1.5)
90	263.6(0.8)	261.6(1.0)	265.1(1.1)	267.2(1.3)	266.7(2.2)	270.9(2.1)	264.0(1.0)	263.3(1.5)
95	276.7(0.9)	273.8(1.3)	276.4(1.2)	280.2(1.3)	280.6(2.6)	285.3(2.6)	275.9(3.1)	274.9(1.8)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 9

Weighted means, standard deviations, and percentiles of reading distributions with jackknifed standard errors (continued)

	1971	1975	1980	1984	1988	1990	1992	1994
BLACK STUDENTS								
Mean	170.1(1.7)	181.2(1.2)	189.3(1.8)	185.7(1.4)	188.5(2.4)	181.8(2.9)	184.5(2.2)	185.4(2.3)
St. Dev.	38.3(0.7)	35.8(0.6)	37.6(1.0)	38.9(0.9)	39.4(1.6)	41.7(1.7)	39.8(1.3)	40.6(2.4)
Percentiles								
5	106.7(2.5)	118.8(2.3)	123.1(4.1)	120.8(2.2)	124.7(6.3)	115.0(4.7)	119.3(6.1)	119.1(3.7)
10	120.0(2.0)	133.7(2.8)	139.4(4.0)	135.1(2.8)	138.3(3.4)	128.9(3.9)	132.4(3.6)	132.7(4.7)
25	143.4(2.0)	157.5(2.3)	165.3(1.9)	159.3(1.8)	161.8(3.0)	152.5(3.2)	156.3(4.4)	155.3(4.1)
50	171.0(2.1)	182.8(1.2)	191.7(2.1)	186.5(1.5)	188.3(4.0)	181.8(3.1)	185.1(2.5)	186.4(4.7)
75	196.3(1.8)	206.5(1.2)	215.6(1.9)	212.5(1.6)	216.5(2.9)	210.5(2.4)	213.5(2.6)	216.2(5.1)
90	218.9(1.6)	226.3(1.5)	236.3(1.9)	235.3(2.5)	238.2(3.8)	236.3(2.7)	235.5(2.9)	237.2(2.6)
95	232.4(1.7)	237.2(2.0)	247.1(1.8)	248.4(2.0)	252.2(4.6)	250.7(6.9)	248.7(2.5)	248.0(4.7)
HISPANIC STUDENTS								
Mean	***** (0.0)	182.7(2.2)	190.2(2.3)	187.1(3.1)	193.7(3.5)	189.4(2.3)	191.7(3.1)	185.9(3.9)
St. Dev.	***** (0.0)	36.8(1.3)	38.2(1.2)	39.2(1.5)	41.5(2.8)	39.7(1.6)	40.3(1.8)	41.4(2.0)
Percentiles								
5	***** (0.0)	120.3(4.9)	123.4(3.1)	120.3(5.1)	121.8 (11.3)	125.4(8.9)	124.8(6.2)	118.9 (5.5)
10	***** (0.0)	133.4(5.2)	138.4(4.1)	134.7(7.2)	140.3(7.7)	139.0(4.3)	138.7(5.6)	133.7 (13.5)
25	***** (0.0)	157.4(3.0)	164.3(3.9)	160.7(2.4)	164.9(5.1)	160.8(1.9)	162.5(6.0)	157.0(4.4)
50	***** (0.0)	184.2(2.9)	192.0(3.3)	189.2(2.3)	196.0(3.4)	189.3(3.5)	192.7 (4.6)	184.1(6.9)
75	***** (0.0)	209.4(3.4)	217.6(3.0)	215.4(2.3)	222.0(6.0)	218.9(4.0)	222.0(2.3)	215.7(5.3)
90	***** (0.0)	228.6(3.6)	237.8(2.7)	236.1(2.2)	246.7(8.0)	239.3(5.7)	244.7(5.6)	242.8(2.8)
95	***** (0.0)	240.3(2.6)	249.9(4.3)	247.1(2.1)	258.6 (11.4)	253.2(6.7)	255.4 (10.4)	255.0(6.9)

***** No data were available.

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 13

Weighted means, standard deviations, and percentiles of reading distributions with jackknifed standard errors

	1971	1975	1980	1984	1988	1990	1992	1994
TOTAL SAMPLE								
Mean	255.2(0.9)	255.9(0.8)	258.5(0.9)	257.1(0.6)	257.5(1.0)	256.8(0.8)	259.8(1.2)	257.9(0.9)
St. Dev.	35.7(0.4)	35.8(0.3)	34.9(0.4)	35.5(0.3)	34.7(0.5)	36.0(0.6)	39.4(0.8)	39.8(0.7)
Percentiles								
5	192.8(1.8)	193.5(1.1)	199.1(1.9)	196.7(1.1)	199.5(1.7)	195.7(1.9)	190.9(2.8)	188.2(4.9)
10	207.8(1.4)	208.7(1.0)	212.8(1.5)	210.2(0.9)	212.9(1.2)	209.8(1.8)	207.9(1.9)	205.1(1.7)
25	232.3(1.2)	232.9(1.0)	235.3(1.1)	233.9(0.8)	234.2(1.2)	233.2(1.0)	234.7(1.8)	232.5(1.2)
50	257.0(1.0)	257.7(0.9)	259.6(0.8)	258.2(0.8)	257.9(1.1)	257.3(0.9)	261.6(1.6)	260.1(1.1)
75	279.9(0.8)	280.6(0.8)	282.8(0.8)	281.6(0.6)	281.4(1.4)	281.5(0.8)	287.0(1.4)	285.2(1.1)
90	299.6(0.9)	300.5(1.0)	302.3(0.8)	301.7(0.8)	301.6(1.0)	302.0(1.0)	309.2(1.8)	307.4(1.4)
95	310.8(0.9)	311.8(1.0)	313.9(0.8)	313.7(1.0)	313.7(1.3)	314.4(1.3)	321.9(2.6)	320.3(1.4)
MALE STUDENTS								
Mean	249.6(1.0)	249.6(0.8)	254.3(1.1)	252.7(0.7)	251.8(1.3)	250.5(1.1)	254.1(1.7)	250.6(1.2)
St. Dev.	35.9(0.5)	35.7(0.4)	35.0(0.5)	35.8(0.4)	35.3(0.7)	36.0(0.7)	40.4(1.1)	40.0(0.8)
Percentiles								
5	186.7(1.6)	187.2(1.1)	194.9(1.9)	191.9(1.0)	192.6(2.5)	189.7(2.2)	184.9(3.7)	181.0(4.4)
10	201.6(1.6)	202.3(1.5)	208.5(1.5)	205.5(1.2)	206.7(1.8)	202.8(1.4)	201.0(2.8)	197.1(2.9)
25	226.3(1.2)	226.8(1.1)	230.8(1.2)	228.9(1.1)	227.7(2.1)	226.9(1.9)	227.4(2.1)	224.9(1.6)
50	251.4(0.8)	251.4(0.9)	255.4(1.1)	253.9(0.9)	252.1(2.1)	251.9(1.3)	255.6(2.4)	253.1(1.8)
75	274.5(0.8)	274.1(0.8)	278.6(1.2)	277.5(1.0)	276.5(2.0)	275.3(1.2)	282.5(1.5)	278.4(1.6)
90	294.2(1.0)	293.5(1.0)	298.5(1.2)	297.8(1.0)	297.2(1.5)	295.3(1.2)	305.0(3.4)	300.4(2.1)
95	305.9(1.3)	305.6(1.7)	309.9(0.9)	309.4(1.2)	309.4(2.8)	307.4(3.2)	317.8(3.1)	313.5(1.5)
FEMALE STUDENTS								
Mean	260.8(0.9)	262.3(0.9)	262.6(0.9)	261.8(0.7)	263.0(1.0)	263.1(1.1)	265.3(1.2)	265.7(1.2)
St. Dev.	34.5(0.4)	34.8(0.4)	34.2(0.4)	34.5(0.3)	33.1(0.6)	34.8(0.7)	37.5(0.8)	38.0(0.8)
Percentiles								
5	200.9(1.5)	202.1(1.7)	204.2(2.0)	203.0(1.3)	207.3(3.9)	205.3(3.1)	199.3(4.1)	199.6(2.6)
10	215.2(1.4)	215.9(1.4)	218.0(2.0)	216.8(1.1)	221.0(1.6)	217.9(2.0)	216.8(2.9)	216.0(3.7)
25	238.5(0.8)	239.8(1.1)	240.0(1.1)	239.1(0.8)	240.0(1.6)	240.0(1.9)	241.5(1.2)	242.0(1.5)
50	262.4(1.1)	264.2(1.0)	263.4(0.9)	262.7(0.8)	263.0(1.4)	263.0(1.6)	266.6(1.9)	267.1(1.1)
75	285.0(1.0)	286.6(1.2)	286.3(1.0)	285.4(0.7)	285.8(1.0)	286.6(1.1)	290.8(1.1)	291.9(1.3)
90	303.8(1.3)	305.4(1.0)	305.6(1.0)	305.5(0.8)	305.2(1.2)	308.1(1.5)	312.8(1.5)	313.0(2.9)
95	314.6(0.9)	316.1(1.1)	317.3(1.6)	317.5(1.6)	317.7(3.2)	319.4(2.5)	324.5(2.4)	325.1(2.4)
WHITE STUDENTS								
Mean	260.9(0.7)	262.1(0.7)	264.4(0.7)	262.5(0.6)	261.3(1.1)	262.3(0.9)	266.4(1.2)	265.1(1.1)
St. Dev.	32.9(0.3)	32.9(0.3)	32.7(0.3)	33.8(0.4)	33.9(0.5)	34.5(0.6)	36.6(0.7)	37.5(0.9)
Percentiles								
5	204.6(1.2)	206.3(1.0)	209.0(1.2)	204.9(0.9)	204.0(1.4)	204.1(2.2)	204.0(2.7)	199.8(2.4)
10	217.9(0.9)	219.2(0.7)	221.8(1.2)	218.3(0.8)	217.1(2.1)	217.3(1.7)	218.7(2.2)	217.0(3.0)
25	239.4(0.9)	240.7(0.8)	242.8(0.8)	240.6(0.8)	238.3(1.0)	239.6(1.7)	242.5(1.4)	241.9(1.0)
50	262.0(0.8)	263.1(1.0)	265.1(0.6)	263.4(0.7)	262.2(1.1)	262.6(1.4)	267.5(2.0)	266.9(1.2)
75	283.5(0.9)	284.6(0.8)	286.9(0.7)	285.6(0.7)	285.1(0.9)	285.6(1.2)	291.5(1.1)	290.4(1.4)
90	302.2(0.7)	303.5(0.9)	305.7(0.8)	305.0(0.8)	304.2(1.5)	306.0(2.4)	312.4(1.9)	311.4(1.2)
95	313.1(1.1)	314.3(0.9)	316.9(0.8)	316.8(1.3)	315.8(1.1)	318.1(2.7)	324.4(2.0)	323.7(1.3)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 13

Weighted means, standard deviations, and percentiles of reading distributions with jackknifed standard errors (continued)

	1971	1975	1980	1984	1988	1990	1992	1994
BLACK STUDENTS								
Mean	222.4(1.2)	225.7(1.2)	232.8(1.5)	236.3(1.2)	242.9(2.4)	241.5(2.2)	237.6(2.3)	234.3(2.4)
St. Dev.	33.5(0.5)	34.9(0.7)	32.7(0.8)	34.1(0.8)	32.1(1.3)	35.3(1.5)	39.8(1.9)	38.0(1.7)
Percentiles								
5	166.3(1.5)	167.2(2.5)	178.6(2.4)	180.1(2.0)	190.6(3.4)	182.3(5.3)	169.6(10.1)	170.0(3.7)
10	178.0(2.2)	180.1(2.5)	190.6(3.3)	192.4(1.9)	202.2(3.3)	194.3(7.3)	185.3(3.3)	183.0(6.6)
25	199.1(1.9)	202.2(1.3)	210.9(1.8)	213.3(2.6)	222.0(2.4)	217.0(3.2)	210.0(3.0)	207.8(2.3)
50	223.3(1.4)	226.0(1.7)	232.6(1.3)	236.4(1.3)	242.4(2.7)	242.5(4.0)	239.2(2.3)	235.9(3.0)
75	245.5(1.4)	249.9(1.5)	254.8(1.9)	259.3(1.1)	263.6(4.5)	265.7(2.5)	265.6(2.8)	261.1(4.7)
90	264.8(1.3)	270.6(1.2)	275.0(1.7)	280.3(1.9)	283.6(4.7)	285.9(4.9)	287.3(3.1)	283.3(2.8)
95	276.8(2.3)	282.7(2.3)	286.2(1.5)	292.7(1.6)	298.9(2.2)	298.9(3.0)	302.5(4.9)	295.2(5.4)
HISPANIC STUDENTS								
Mean	***** (0.0)	232.5(3.0)	237.2(2.0)	239.6(2.0)	240.1(3.5)	237.8(2.3)	239.2(3.5)	235.1(1.9)
St. Dev.	***** (0.0)	34.5(1.0)	32.7(0.8)	34.9(1.2)	34.6(2.4)	35.9(1.3)	40.4(2.4)	37.6(2.2)
Percentiles								
5	***** (0.0)	173.7(6.9)	182.6(4.8)	180.8(2.9)	181.4(6.9)	178.0(9.6)	165.0(13.0)	174.2(5.7)
10	***** (0.0)	186.7(2.8)	194.9(4.5)	193.3(3.3)	194.6(3.8)	191.3(4.9)	183.8(8.0)	186.7(6.4)
25	***** (0.0)	207.8(3.0)	214.8(3.0)	216.1(2.5)	218.9(6.1)	214.1(4.1)	213.0(5.7)	210.7(4.9)
50	***** (0.0)	233.5(3.6)	237.5(2.4)	240.4(2.5)	240.3(4.1)	238.6(4.1)	242.0(10.6)	235.5(4.2)
75	***** (0.0)	256.7(4.8)	259.3(1.9)	263.5(2.3)	262.0(5.4)	262.2(3.1)	267.0(7.7)	259.9(3.7)
90	***** (0.0)	277.2(2.3)	279.2(2.9)	284.2(2.2)	284.0(8.7)	283.8(6.0)	288.7(8.0)	281.9(8.4)
95	***** (0.0)	289.1(3.5)	290.5(1.5)	295.9(3.1)	297.3(10.1)	295.9(4.5)	303.1(7.7)	297.7(15.6)

***** No data were available.

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 17

Weighted means, standard deviations, and percentiles of reading distributions with jackknifed standard errors

	1971	1975	1980	1984	1988	1990	1992	1994
TOTAL SAMPLE								
Mean	285.2(1.2)	285.6(0.8)	285.5(1.2)	288.8(0.8)	290.1(1.0)	290.2(1.1)	289.7(1.1)	288.1(1.3)
St. Dev.	45.8(0.5)	44.0(0.6)	41.8(0.6)	40.3(0.3)	37.1(0.7)	41.3(0.7)	43.0(0.6)	44.4(1.0)
Percentiles								
5	206.1(1.5)	209.3(3.0)	213.0(1.7)	219.9(1.3)	226.1(1.3)	220.0(2.3)	214.3(2.9)	210.8(3.6)
10	225.3(1.7)	228.4(1.7)	230.6(1.8)	236.0(0.9)	241.5(2.2)	236.9(3.1)	232.7(2.7)	230.0(3.1)
25	255.9(1.6)	257.8(1.1)	258.7(1.2)	262.5(1.1)	265.7(1.8)	263.5(1.3)	262.6(1.1)	259.8(1.8)
50	287.7(1.4)	287.9(0.7)	287.5(1.4)	290.3(0.9)	291.1(1.9)	291.1(1.3)	293.0(1.2)	289.9(1.8)
75	316.7(1.0)	315.7(0.7)	314.6(1.2)	316.8(0.9)	316.0(1.4)	318.6(1.5)	319.4(1.4)	318.7(1.8)
90	341.7(1.1)	340.0(0.9)	337.5(1.4)	339.6(0.7)	336.9(2.1)	342.7(2.1)	342.7(1.8)	343.0(1.8)
95	356.5(1.5)	354.3(0.7)	350.9(1.3)	352.6(1.0)	348.7(1.8)	356.0(1.7)	355.8(1.9)	357.7(1.7)
MALE STUDENTS								
Mean	278.9(1.2)	279.7(1.0)	281.8(1.3)	283.9(0.8)	286.0(1.5)	284.0(1.6)	284.2(1.6)	281.7(2.2)
St. Dev.	46.3(0.6)	45.1(0.6)	42.7(0.6)	40.9(0.4)	37.5(1.2)	42.6(0.8)	43.8(0.8)	45.0(1.3)
Percentiles								
5	198.3(1.6)	201.6(1.4)	207.2(1.9)	214.3(1.5)	222.0(2.3)	209.4(3.2)	208.1(3.7)	202.8(4.5)
10	218.2(2.0)	220.8(2.0)	225.4(2.2)	230.1(1.0)	236.3(3.7)	228.2(3.4)	226.0(3.6)	221.1(4.2)
25	249.1(1.4)	250.9(1.1)	254.4(1.5)	257.0(1.3)	261.6(1.8)	257.3(1.9)	255.4(2.6)	251.9(2.1)
50	281.6(1.4)	282.0(1.3)	284.1(1.2)	285.4(0.8)	287.0(2.3)	285.9(2.1)	287.6(1.7)	284.1(2.5)
75	310.9(1.2)	310.8(1.0)	311.9(1.2)	312.3(1.0)	312.0(3.4)	313.2(2.1)	315.0(1.6)	313.1(2.8)
90	336.1(2.0)	335.9(1.4)	335.2(1.3)	335.3(1.2)	333.4(2.1)	338.4(2.3)	338.4(3.8)	337.5(3.4)
95	350.8(1.7)	350.3(1.9)	348.3(1.2)	348.8(1.6)	345.6(4.2)	351.9(1.6)	351.2(2.9)	351.6(1.9)
FEMALE STUDENTS								
Mean	291.3(1.3)	291.2(1.0)	289.2(1.2)	294.0(0.9)	293.8(1.5)	296.5(1.2)	295.7(1.1)	294.7(1.5)
St. Dev.	44.5(0.6)	42.2(0.8)	40.5(0.7)	39.0(0.4)	36.3(0.9)	38.8(0.8)	41.4(0.9)	42.7(1.0)
Percentiles								
5	215.0(1.9)	218.9(2.7)	219.4(2.1)	227.4(1.9)	231.7(3.3)	232.3(3.8)	223.8(4.5)	223.0(3.1)
10	233.3(1.6)	236.8(2.0)	236.8(1.6)	242.9(1.2)	246.5(4.8)	247.0(2.1)	241.8(1.9)	240.3(2.8)
25	262.7(1.7)	264.9(1.4)	262.9(1.8)	268.6(1.3)	270.2(2.1)	270.5(2.3)	270.1(1.8)	267.3(1.6)
50	293.6(1.2)	293.4(0.9)	290.7(1.1)	295.2(1.0)	294.6(2.2)	296.6(1.2)	298.5(1.6)	296.4(2.3)
75	321.7(1.6)	319.7(0.7)	317.0(1.6)	320.9(0.9)	319.4(1.5)	323.5(1.5)	323.8(1.5)	324.1(2.6)
90	346.2(1.6)	343.3(1.0)	339.7(1.7)	343.1(1.0)	339.8(1.7)	346.3(2.5)	346.6(2.4)	347.9(3.1)
95	360.7(1.2)	357.0(1.3)	353.2(1.8)	355.5(1.2)	351.7(2.8)	359.4(2.7)	359.6(2.7)	362.6(2.4)
WHITE STUDENTS								
Mean	291.4(1.0)	293.0(0.6)	292.8(0.9)	295.3(0.9)	294.7(1.2)	296.6(1.2)	297.4(1.4)	295.7(1.5)
St. Dev.	42.5(0.4)	39.8(0.4)	37.9(0.4)	38.2(0.3)	36.0(0.8)	39.6(0.6)	39.8(0.6)	41.9(1.1)
Percentiles								
5	219.4(1.4)	225.9(1.2)	228.5(1.4)	229.9(1.4)	232.6(1.1)	228.5(2.5)	228.1(3.2)	221.6(3.9)
10	236.6(1.0)	241.7(0.9)	243.5(1.5)	245.6(0.9)	247.3(3.7)	246.2(2.5)	244.9(2.8)	240.5(3.8)
25	263.9(1.4)	267.0(0.9)	267.7(1.0)	270.7(1.1)	271.4(1.7)	271.1(1.4)	272.3(1.9)	269.6(3.0)
50	292.9(1.2)	294.0(0.8)	293.6(0.8)	296.7(1.1)	295.4(1.6)	297.5(1.2)	300.1(1.9)	297.6(1.5)
75	320.1(1.1)	319.9(0.7)	318.8(1.0)	321.6(0.8)	319.9(1.9)	323.8(1.9)	324.5(1.2)	324.4(1.5)
90	344.5(1.0)	343.2(0.7)	340.6(1.3)	343.2(0.8)	339.7(1.6)	347.1(1.6)	346.6(2.5)	347.1(2.5)
95	358.9(1.4)	357.0(1.2)	353.5(1.4)	355.8(0.9)	351.6(3.0)	359.7(1.7)	359.0(2.5)	361.1(2.7)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 Reading Trend Assessment — Age 17

Weighted means, standard deviations, and percentiles of reading distributions with jackknifed standard errors (continued)

	1971	1975	1980	1984	1988	1990	1992	1994
BLACK STUDENTS								
Mean	238.7(1.7)	240.6(2.0)	243.1(1.8)	263.6(1.2)	274.4(2.4)	267.3(2.3)	260.6(2.1)	266.2(3.9)
St. Dev.	43.5(0.7)	43.8(1.2)	39.5(1.2)	37.0(0.8)	35.9(1.3)	39.2(2.2)	42.2(1.7)	42.8(1.3)
Percentiles								
5	164.7(4.4)	164.7(3.1)	176.0(2.4)	201.9(4.1)	214.4(9.6)	201.3(7.9)	187.9(3.3)	192.3(8.7)
10	182.1(4.2)	182.4(5.3)	191.1(3.6)	216.0(2.0)	227.8(4.3)	217.4(4.0)	206.2(6.7)	210.1(7.7)
25	210.4(2.4)	212.1(3.0)	217.0(2.7)	239.0(1.4)	250.5(2.5)	242.4(3.9)	235.1(4.1)	238.9(4.8)
50	239.3(1.6)	242.1(1.6)	243.9(2.6)	264.2(1.2)	274.3(3.6)	268.4(1.9)	262.5(1.6)	267.8(2.9)
75	268.1(2.0)	271.6(1.4)	270.1(2.0)	288.3(1.6)	299.6(3.1)	293.7(2.7)	288.3(1.9)	295.8(5.6)
90	294.1(2.4)	295.7(1.4)	293.3(1.7)	310.5(1.9)	321.0(4.0)	316.2(4.8)	312.0(4.2)	317.5(7.0)
95	309.7(2.2)	308.3(2.7)	306.6(2.4)	323.6(3.4)	333.1(4.9)	330.5(11.0)	327.8(5.4)	334.5(4.0)
HISPANIC STUDENTS								
Mean	***** (0.0)	252.4(3.6)	261.4(2.7)	268.1(2.9)	270.8(4.3)	274.8(3.6)	271.2(3.7)	263.2(4.9)
St. Dev.	***** (0.0)	42.0(2.2)	40.1(1.4)	39.7(1.5)	37.7(2.0)	40.7(2.7)	43.7(1.8)	44.5(2.9)
Percentiles								
5	***** (0.0)	184.4(3.7)	194.3(7.8)	201.5(2.4)	204.2 (11.7)	205.9 (11.1)	192.8(7.2)	186.9 (18.5)
10	***** (0.0)	197.1(4.9)	208.2(3.7)	216.6(2.9)	218.0(7.4)	224.3 (12.0)	213.1(9.7)	203.2(7.9)
25	***** (0.0)	225.4(5.9)	235.3(5.0)	241.5(2.6)	246.4(5.9)	250.4(8.3)	240.7(8.7)	235.6(6.4)
50	***** (0.0)	252.8(3.7)	262.6(3.5)	268.6(3.1)	273.6(5.1)	276.3(3.2)	275.0(4.7)	264.3(6.0)
75	***** (0.0)	279.4(3.0)	288.6(3.2)	295.4(3.9)	297.9(7.1)	302.6(4.9)	303.3(6.5)	294.0(8.2)
90	***** (0.0)	306.7(6.1)	312.6(3.0)	318.3(6.1)	315.9 (18.1)	326.5(3.2)	326.5(4.2)	318.2(5.9)
95	***** (0.0)	320.8(6.8)	325.1(3.4)	332.3(7.7)	328.0(8.6)	339.4 (11.2)	336.6(4.6)	331.3(5.9)

***** No data were available.

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 9

Weighted percentage correct by subgroups across assessment years

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Find picture fact	1994	46.6(1.9)	59.2(3.0)	32.9(3.0)	47.4(2.1)	48.3(6.5)	***(***)
	1992	43.1(1.5)	53.9(1.9)	31.8(2.6)	41.1(1.6)	45.9(4.9)	54.3(7.7)
	1990	46.8(1.8)	52.3(3.0)	41.4(2.5)	44.2(2.1)	54.6(4.2)	54.0(7.4)
	1988	43.1(1.9)	54.6(3.0)	30.1(2.6)	41.3(2.3)	57.0(4.8)	37.5(5.6)
	1984	57.2(1.1)	65.5(1.4)	47.9(1.7)	56.5(1.2)	62.8(3.1)	52.0(5.6)
Insect communication fact	1994	69.9(1.8)	70.1(2.5)	69.6(3.0)	74.6(2.0)	55.0(5.4)	***(***)
	1992	67.7(2.1)	63.3(2.2)	72.3(3.1)	71.5(2.2)	51.6(4.7)	58.5(9.6)
	1990	69.2(2.3)	67.4(3.4)	71.0(2.7)	73.3(2.4)	51.8(6.5)	63.2(5.9)
	1988	67.5(2.5)	68.6(3.4)	66.3(3.0)	70.7(2.9)	53.8(5.4)	56.0(6.2)
	1984	65.4(1.4)	63.0(1.8)	68.0(1.8)	69.5(1.5)	49.5(3.2)	50.0(7.3)
Insect gender fact	1994	60.4(2.1)	60.2(2.6)	60.6(3.3)	63.8(2.0)	45.2(8.2)	***(***)
	1992	58.3(2.3)	54.2(2.2)	62.8(3.4)	61.1(2.7)	48.5(5.1)	51.3(6.6)
	1990	55.6(2.1)	50.4(2.8)	60.7(2.9)	60.3(2.6)	37.9(5.0)	48.5(7.9)
	1988	57.4(2.3)	56.0(2.6)	59.0(3.0)	58.3(2.6)	53.5(6.0)	50.1(4.7)
	1984	56.2(1.4)	54.0(2.1)	58.8(1.8)	58.3(1.4)	47.4(3.7)	51.6(7.5)
Insect anatomy	1994	65.5(2.1)	62.5(2.7)	68.7(2.9)	68.4(2.3)	55.4(6.1)	***(***)
	1992	65.6(2.3)	57.3(2.7)	74.5(3.6)	67.5(2.5)	60.3(4.2)	54.6(5.4)
	1990	65.9(2.5)	63.7(3.2)	68.2(2.9)	68.8(3.3)	56.0(5.1)	58.2(5.3)
	1988	66.7(2.3)	66.2(3.3)	67.4(2.8)	68.5(2.7)	55.0(3.4)	66.9(3.7)
	1984	62.5(1.1)	58.5(1.6)	67.0(1.5)	65.3(1.2)	53.0(3.6)	45.1(6.5)
Dog picture: Best description	1994	94.9(1.1)	93.9(1.7)	96.0(1.4)	95.0(1.2)	92.8(3.1)	***(***)
	1992	93.9(0.9)	91.5(1.5)	96.5(1.0)	95.5(1.0)	89.8(3.0)	86.5(4.3)
	1990	94.3(1.0)	93.6(1.4)	95.1(1.4)	95.3(1.0)	89.0(3.5)	95.2(2.5)
	1988	95.0(1.2)	95.8(1.2)	94.0(1.8)	95.2(1.4)	94.1(2.4)	93.4(3.6)
	1984	93.9(0.6)	93.2(0.7)	94.7(0.8)	94.9(0.6)	90.8(1.8)	88.5(3.8)
Nut story: Plan	1994	83.0(1.6)	81.2(2.0)	85.0(2.3)	86.0(1.7)	71.8(4.6)	***(***)
	1992	80.2(1.7)	75.0(2.3)	85.6(2.6)	81.9(1.9)	70.2(4.4)	78.5(5.4)
	1990	79.8(1.7)	79.6(2.7)	80.1(2.1)	85.0(1.7)	62.3(5.1)	71.5(5.6)
	1988	83.3(1.6)	80.2(2.1)	86.8(2.1)	85.6(1.9)	75.3(4.6)	74.0(4.6)
	1984	79.2(1.1)	75.0(1.6)	83.8(1.4)	82.2(1.3)	68.1(3.3)	68.6(4.7)
Nut story: Problem	1994	57.3(2.2)	56.7(2.9)	57.9(3.0)	61.3(2.4)	37.2(4.1)	***(***)
	1992	48.6(1.8)	45.0(2.3)	52.3(3.0)	53.0(1.9)	34.0(3.9)	33.0(4.5)
	1990	51.1(2.2)	49.1(2.9)	53.0(2.6)	56.8(2.6)	29.0(4.4)	40.1(6.4)
	1988	54.4(2.4)	52.8(3.2)	56.3(3.1)	58.1(2.8)	34.0(4.5)	50.8(7.7)
	1984	51.7(1.3)	52.2(1.6)	51.1(2.0)	56.7(1.5)	29.8(3.1)	38.0(4.7)
Nut story: Goal	1994	71.0(2.5)	69.6(3.1)	72.5(3.9)	74.4(2.3)	56.4(8.7)	***(***)
	1992	70.3(2.0)	66.3(2.2)	74.5(3.0)	73.2(2.3)	60.4(4.4)	55.9(7.6)
	1990	68.2(2.4)	65.6(2.9)	70.7(2.8)	72.3(2.6)	54.6(5.3)	60.2(5.4)
	1988	70.4(2.1)	67.0(3.1)	74.3(2.4)	73.2(2.4)	62.8(7.9)	50.0(5.6)
	1984	67.1(1.1)	64.3(1.6)	70.2(1.4)	69.4(1.5)	57.5(3.5)	57.7(6.5)
Nut story: Outcome	1994	62.9(2.0)	62.4(2.8)	63.4(3.1)	68.3(2.0)	41.8(6.2)	***(***)
	1992	59.7(2.2)	53.9(3.4)	65.7(2.5)	63.0(2.5)	49.1(5.4)	52.9(5.2)
	1990	58.1(2.4)	57.5(3.2)	58.8(2.8)	63.9(2.5)	37.8(5.6)	48.5(6.5)
	1988	60.9(2.2)	58.9(3.3)	63.3(2.4)	66.2(2.4)	37.0(4.0)	43.3(9.4)
	1984	58.7(1.3)	57.1(1.6)	60.5(2.0)	62.8(1.7)	44.5(3.5)	42.8(4.3)

*** Sample size insufficient to permit a reliable estimate.
The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
History: Definition	1994	61.7(2.1)	58.1(3.4)	65.1(2.9)	66.7(2.5)	41.6(7.4)	39.6(6.5)
	1992	54.8(1.6)	51.2(2.8)	58.3(1.9)	59.3(1.9)	37.4(3.3)	47.1(4.8)
	1990	54.9(1.7)	50.8(2.1)	59.4(2.5)	62.1(2.0)	25.7(6.0)	39.2(6.5)
	1988	57.7(3.1)	52.6(4.2)	62.5(3.9)	63.1(3.6)	39.1(5.0)	35.4(9.9)
	1984	56.7(1.4)	53.6(1.9)	59.9(1.8)	62.8(1.8)	37.1(2.3)	37.2(3.9)
History: Survival	1994	49.1(2.2)	50.3(2.8)	48.0(3.2)	52.8(2.4)	34.1(6.4)	38.7(6.6)
	1992	49.5(1.4)	49.5(2.3)	49.4(2.1)	53.8(1.7)	31.5(3.9)	41.1(6.4)
	1990	45.1(1.9)	46.0(2.7)	44.2(2.9)	48.6(2.0)	31.4(5.4)	34.1(6.4)
	1988	46.3(2.1)	46.7(3.8)	46.0(3.0)	48.8(2.7)	32.1(3.8)	38.8(5.5)
	1984	50.3(1.6)	50.9(1.8)	49.7(1.9)	53.1(1.9)	38.9(2.4)	42.8(3.6)
History: Location	1994	41.0(2.6)	37.4(3.4)	44.4(3.0)	40.4(2.8)	44.0(6.6)	34.0(6.9)
	1992	40.7(2.2)	43.6(3.1)	37.9(2.6)	42.4(2.4)	34.2(5.5)	34.8(7.2)
	1990	36.8(1.8)	35.2(2.6)	38.6(3.1)	38.5(2.4)	29.3(3.7)	38.2(5.9)
	1988	36.6(2.6)	36.3(3.7)	36.9(2.8)	37.6(2.6)	27.3(6.7)	41.3(8.3)
	1984	39.2(1.3)	40.6(1.8)	37.7(1.2)	40.8(1.4)	32.2(2.2)	35.7(7.6)
History: Main Purpose	1994	38.3(1.9)	41.0(3.0)	35.7(2.8)	38.9(2.2)	35.0(5.3)	28.9(4.2)
	1992	35.7(2.0)	38.3(2.6)	33.2(2.4)	36.2(1.8)	31.3(5.2)	33.6(8.1)
	1990	36.0(1.8)	35.7(2.7)	36.3(2.6)	38.2(2.1)	27.4(5.4)	24.7(5.5)
	1988	38.0(2.4)	36.6(3.1)	39.3(2.8)	38.7(3.0)	28.8(3.9)	36.0(5.9)
	1984	32.1(1.1)	31.0(1.5)	33.3(1.4)	34.0(1.4)	23.4(1.6)	27.9(5.2)
Reason for Yvonne's dilemma	1994	84.4(1.8)	81.7(2.5)	87.0(2.3)	88.3(2.2)	61.2(4.1)	76.9(8.6)
	1992	81.5(1.5)	77.6(2.3)	85.3(1.8)	84.6(1.7)	68.5(4.5)	75.1(5.1)
	1990	82.2(1.5)	79.5(2.2)	85.0(2.2)	84.7(1.6)	69.4(4.8)	77.8(4.1)
	1988	82.4(1.9)	78.9(2.7)	85.6(2.7)	84.6(2.5)	73.9(4.1)	70.4(6.9)
	1984	83.3(1.0)	79.0(1.4)	87.7(1.0)	86.8(1.2)	72.0(2.3)	69.4(4.7)
Fly story: Problem	1994	9.1(1.0)	7.8(1.5)	10.3(1.8)	8.5(1.2)	14.0(4.0)	11.0(4.1)
	1992	9.9(1.0)	11.3(1.7)	8.7(1.3)	9.1(1.1)	13.3(3.3)	13.9(6.2)
	1990	9.0(1.1)	8.9(1.4)	9.1(1.6)	8.9(1.3)	10.0(2.6)	6.3(3.4)
	1988	10.9(1.5)	8.4(2.2)	13.3(2.1)	12.2(1.9)	9.2(2.2)	6.3(3.4)
	1984	9.6(0.7)	10.6(1.0)	8.6(0.9)	9.4(0.7)	7.5(1.6)	12.8(2.0)
Fly story: Resolution	1994	16.9(1.2)	16.6(2.0)	17.2(2.0)	18.3(1.6)	11.5(3.4)	14.7(4.8)
	1992	16.5(1.3)	20.0(2.2)	13.1(1.5)	15.7(1.5)	17.2(3.3)	21.5(5.0)
	1990	19.1(1.7)	17.1(2.2)	21.2(2.4)	20.2(1.9)	18.1(4.8)	10.2(4.7)
	1988	16.1(1.4)	16.0(2.3)	16.2(2.0)	16.2(1.7)	18.8(2.1)	10.6(4.3)
	1984	15.3(1.0)	16.4(1.3)	14.1(1.3)	14.8(1.0)	15.2(2.1)	15.2(3.0)
Dog Poem: Main Idea	1994	71.4(2.4)	67.0(3.8)	75.5(2.5)	76.0(2.7)	40.6(6.3)	64.2(4.8)
	1992	65.6(1.7)	61.7(2.6)	69.4(2.2)	71.7(1.8)	42.5(4.8)	54.2(5.9)
	1990	65.3(2.0)	60.9(2.9)	69.9(2.7)	72.0(2.2)	38.9(5.5)	57.2(6.4)
	1988	69.5(2.3)	65.4(3.8)	73.3(2.2)	73.7(2.9)	50.1(4.2)	54.7(8.3)
	1984	67.8(1.3)	62.5(2.0)	73.4(1.3)	73.6(1.6)	46.8(3.2)	50.8(3.4)
Dog Poem: Resolution	1994	69.9(2.4)	64.0(3.3)	75.3(2.8)	74.7(2.5)	45.1(7.0)	48.9(6.6)
	1992	69.7(1.6)	64.9(2.3)	74.3(2.0)	75.2(1.9)	51.1(5.2)	57.9(5.5)
	1990	67.1(2.3)	64.1(2.7)	70.4(3.6)	74.8(2.1)	38.2(5.9)	47.5(8.0)
	1988	68.4(2.8)	64.2(4.2)	72.3(3.1)	72.8(3.0)	53.1(4.7)	53.2(7.5)
	1984	69.7(1.2)	65.4(1.6)	74.1(1.3)	73.9(1.3)	53.8(2.8)	58.5(3.6)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Flying: 1st machine	1994	26.3(1.9)	27.7(2.7)	25.0(2.9)	29.3(2.6)	12.7(4.0)	21.8(6.2)
	1992	29.8(1.8)	29.6(2.7)	30.1(1.9)	34.3(2.3)	13.4(2.4)	24.5(4.3)
	1990	29.3(1.9)	28.5(2.4)	30.1(2.4)	33.5(2.4)	15.8(3.3)	12.3(4.6)
	1988	29.9(1.7)	29.2(2.1)	30.5(2.9)	33.0(2.3)	17.5(4.1)	25.2(4.8)
	1984	29.3(1.3)	29.9(1.6)	28.6(1.6)	32.3(1.6)	15.1(1.7)	23.4(5.0)
Flying: Types of planes	1994	39.9(2.1)	37.7(3.1)	42.0(2.8)	42.5(2.8)	27.2(4.5)	35.9(5.3)
	1992	41.9(1.7)	44.2(2.3)	39.7(2.5)	44.9(2.3)	32.7(4.1)	28.5(6.1)
	1990	35.9(2.4)	32.0(2.3)	40.2(3.9)	38.6(2.6)	21.9(5.0)	40.2(6.1)
	1988	39.1(2.4)	37.9(2.7)	40.2(3.3)	41.1(2.8)	29.6(4.2)	34.3(8.4)
	1984	36.2(1.2)	37.3(1.7)	35.2(1.5)	39.5(1.5)	21.2(3.2)	30.9(4.0)
Flying: Differences	1994	49.5(1.9)	50.6(2.4)	48.4(2.8)	53.3(2.5)	34.4(5.8)	33.2(4.2)
	1992	44.9(1.9)	45.9(2.8)	43.8(2.6)	49.3(2.2)	26.7(5.3)	39.1(7.0)
	1990	43.3(2.2)	44.0(2.8)	42.4(3.1)	48.2(2.4)	24.2(4.8)	36.1(6.2)
	1988	45.3(2.0)	44.5(3.8)	46.0(3.0)	49.0(2.4)	30.9(4.5)	33.4(5.7)
	1984	40.5(1.5)	42.1(2.0)	39.0(1.6)	44.7(1.5)	21.7(2.2)	28.9(6.3)
Folk story: Inferring detail	1994	41.8(2.1)	36.2(3.3)	47.0(3.1)	45.7(2.5)	27.8(4.9)	20.6(5.6)
	1992	41.6(1.9)	39.6(2.8)	43.6(2.4)	44.8(2.0)	33.1(6.0)	32.5(5.8)
	1990	38.9(2.2)	36.3(2.6)	41.7(3.5)	42.8(2.7)	27.0(4.3)	17.6(4.8)
	1988	41.8(2.7)	37.8(3.7)	45.5(2.9)	45.5(3.1)	25.0(4.5)	26.3(6.6)
	1984	42.0(1.2)	40.5(1.5)	43.5(1.7)	45.4(1.4)	26.2(2.8)	28.3(4.3)
Folk story: Character trait	1994	38.5(2.2)	35.0(2.6)	41.7(3.0)	38.5(2.3)	37.4(4.7)	28.6(7.4)
	1992	38.3(1.8)	36.4(2.4)	40.3(2.6)	40.8(2.3)	29.9(3.3)	26.4(5.9)
	1990	38.9(1.9)	35.7(2.1)	42.5(2.8)	42.2(2.0)	24.6(5.1)	30.2(5.8)
	1988	43.2(1.9)	39.1(4.0)	47.1(3.7)	45.0(1.9)	36.3(4.5)	41.4(7.3)
	1984	39.9(1.5)	38.7(2.2)	41.0(1.7)	41.7(1.5)	32.2(3.2)	29.3(8.2)
Folk story: Character action	1994	29.8(1.6)	31.0(2.9)	28.8(2.7)	32.2(2.0)	18.8(4.2)	20.4(5.3)
	1992	32.0(1.8)	32.5(2.6)	31.6(2.6)	34.7(2.2)	24.1(4.0)	22.5(4.5)
	1990	29.9(1.7)	26.2(2.3)	34.0(3.1)	32.5(2.3)	20.3(3.6)	22.2(5.5)
	1988	27.9(2.0)	27.0(2.5)	28.8(3.6)	29.2(2.3)	21.9(3.9)	27.2(5.8)
	1984	29.8(0.9)	28.8(1.7)	30.8(1.8)	31.6(1.2)	21.0(2.5)	27.7(4.5)
Folk story: Major event	1994	53.4(2.4)	57.6(3.4)	49.3(2.9)	55.6(2.9)	44.2(7.9)	43.1(5.9)
	1992	48.5(2.0)	44.6(2.8)	52.4(2.7)	53.8(2.4)	31.3(5.3)	33.6(8.1)
	1990	50.1(1.9)	45.3(2.0)	55.3(3.6)	53.4(2.1)	39.1(6.1)	34.5(XXX)
	1988	50.4(2.3)	47.8(3.3)	53.0(3.2)	53.2(2.6)	34.5(5.1)	45.5(7.4)
	1984	47.5(1.3)	46.8(1.7)	48.1(2.1)	49.6(1.3)	37.4(3.4)	38.5(7.0)
Define nonsense word "hobbies"	1994	79.9(1.7)	75.9(2.9)	83.8(2.4)	81.7(2.0)	71.5(5.1)	76.9(5.4)
	1992	73.1(1.8)	71.3(2.9)	74.8(2.2)	76.6(1.9)	58.7(5.8)	70.1(7.1)
	1990	73.5(2.0)	69.8(2.6)	77.6(2.3)	75.7(2.4)	63.4(6.2)	67.4(7.4)
	1988	73.5(2.4)	68.8(3.4)	78.0(3.1)	76.7(3.3)	60.0(4.3)	64.0(5.6)
	1984	73.1(1.1)	71.9(1.6)	74.4(1.5)	76.8(1.2)	50.4(3.3)	71.8(3.0)
Puzzle: Description of bird	1994	81.2(1.6)	77.8(2.4)	84.4(2.0)	84.7(1.6)	62.4(6.9)	***(***)
	1992	81.4(1.7)	77.5(2.5)	85.0(1.9)	85.7(1.9)	69.0(4.1)	68.8(6.4)
	1990	80.7(1.8)	78.2(2.6)	83.4(2.1)	85.3(1.7)	58.9(5.9)	70.9(7.8)
	1988	83.9(2.5)	83.5(3.0)	84.2(2.8)	86.3(3.1)	73.6(4.4)	76.3(8.2)
	1984	78.7(1.3)	75.4(2.0)	82.0(1.4)	82.9(1.3)	56.6(5.0)	70.4(4.2)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Science: Research	1994	21.7(2.6)	17.7(3.0)	25.6(3.4)	21.7(3.0)	21.7(5.3)	***(***)
	1992	22.3(1.9)	23.4(2.9)	21.1(2.1)	22.3(2.5)	18.8(4.7)	19.7(5.7)
	1990	22.6(1.8)	21.9(2.3)	23.4(2.7)	25.1(2.1)	13.4(4.5)	15.9(4.3)
	1988	21.7(1.8)	16.9(2.8)	26.4(2.7)	22.6(2.2)	19.0(4.9)	12.0(6.9)
	1984	23.6(1.2)	23.4(2.0)	23.7(1.6)	24.4(1.4)	21.0(3.4)	19.5(4.1)
Science: Evidence	1994	10.8(1.5)	8.9(1.7)	12.5(2.7)	9.8(1.6)	19.1(5.7)	***(***)
	1992	9.5(1.1)	7.8(1.6)	11.2(1.7)	8.7(1.0)	15.9(4.0)	2.4(1.7)
	1990	11.4(1.3)	11.2(1.8)	11.6(1.6)	11.9(1.6)	9.4(2.8)	10.2(5.1)
	1988	10.0(1.5)	9.2(2.0)	10.7(1.8)	11.1(1.9)	9.3(2.0)	2.2(1.8)
	1984	11.4(0.9)	11.9(1.6)	10.8(1.1)	12.2(1.0)	6.3(1.6)	9.7(2.1)
Science: Area of study	1994	30.9(1.8)	29.2(2.7)	32.7(2.9)	35.4(2.0)	13.5(3.7)	***(***)
	1992	28.6(1.6)	26.8(2.3)	30.6(2.6)	32.1(2.1)	20.0(3.5)	17.5(3.8)
	1990	29.0(2.0)	29.2(2.6)	28.7(2.8)	31.8(2.1)	20.8(4.8)	14.1(4.3)
	1988	32.9(2.0)	33.6(3.3)	32.3(2.5)	35.4(2.2)	21.4(4.2)	23.2(8.2)
	1984	25.9(1.5)	26.7(1.7)	25.3(1.9)	27.6(1.8)	19.4(2.4)	17.5(3.2)
Timothy story: Recall setting	1994	81.9(2.0)	81.1(2.5)	82.9(3.0)	86.0(1.9)	63.3(6.4)	***(***)
	1992	85.1(1.4)	81.9(2.0)	88.6(1.7)	88.4(1.3)	75.9(3.1)	77.4(7.1)
	1990	83.0(1.5)	80.4(2.0)	85.6(2.1)	84.2(1.8)	82.3(4.0)	71.2(6.7)
	1988	84.8(1.5)	82.0(2.0)	87.5(1.8)	86.3(1.5)	76.1(4.8)	84.6(4.2)
	1984	85.2(0.8)	81.9(1.5)	88.2(0.9)	86.9(0.8)	80.8(2.4)	73.7(2.8)
Myth: Exaggeration	1994	32.3(1.9)	30.9(2.9)	34.0(3.6)	35.7(2.7)	19.0(5.2)	***(***)
	1992	35.1(2.3)	35.0(3.4)	35.1(2.7)	38.3(2.4)	21.8(4.2)	35.3(7.6)
	1990	37.5(2.2)	39.3(2.9)	35.7(3.4)	40.6(2.6)	30.3(6.1)	19.5(6.4)
	1988	36.4(2.5)	39.5(2.8)	33.4(3.5)	38.4(3.0)	26.5(5.2)	35.7(6.4)
	1984	33.6(1.4)	32.6(1.5)	34.5(1.9)	36.7(1.7)	18.7(3.2)	20.1(2.9)
Two meanings of "bats"	1994	76.9(2.1)	71.0(2.8)	83.3(2.7)	83.1(2.5)	51.4(7.3)	***(***)
	1992	76.5(1.5)	73.3(2.5)	79.9(1.7)	80.8(1.7)	64.7(3.8)	67.5(5.8)
	1990	76.3(1.9)	74.9(2.8)	77.8(2.6)	82.6(2.0)	53.8(5.8)	56.3(9.6)
	1988	75.9(2.4)	73.9(3.5)	77.8(2.8)	79.5(2.4)	57.9(4.9)	70.4(8.3)
	1984	73.1(1.5)	67.7(2.0)	78.1(1.6)	77.5(1.7)	53.2(3.4)	59.7(3.2)
Biography: Honors	1994	53.6(1.9)	46.2(2.4)	61.6(3.3)	58.9(2.3)	30.0(5.4)	***(***)
	1992	52.2(1.9)	46.0(2.1)	58.9(3.4)	57.4(2.2)	30.5(3.7)	43.7(7.3)
	1990	52.7(2.0)	48.2(3.1)	57.4(2.8)	57.5(2.7)	34.2(3.9)	30.2(5.3)
	1988	58.0(2.7)	57.1(3.9)	58.9(3.4)	62.0(2.9)	39.9(5.6)	44.1(6.5)
	1984	53.6(1.5)	48.4(2.0)	58.6(2.1)	57.3(1.8)	34.7(2.9)	42.5(6.8)
Biography: Accomplishments	1994	57.4(2.4)	50.5(2.9)	65.1(3.7)	61.5(2.9)	41.0(XXX)	***(***)
	1992	59.1(1.7)	53.7(2.8)	65.1(2.8)	64.4(2.0)	39.8(5.2)	43.2(7.5)
	1990	59.4(2.2)	56.2(3.0)	62.6(3.1)	63.2(2.9)	44.6(5.1)	46.5(6.6)
	1988	60.0(2.3)	59.0(2.8)	61.0(2.9)	62.7(2.6)	46.5(5.3)	52.8(4.7)
	1984	54.9(1.7)	47.7(2.2)	61.5(2.2)	59.0(2.0)	34.2(3.8)	37.8(4.2)
Boxball: Fact	1994	54.7(2.4)	52.9(3.4)	56.4(3.2)	57.5(3.0)	51.4(7.0)	***(***)
	1992	53.8(1.9)	50.4(2.9)	57.4(2.5)	58.0(2.3)	36.5(4.6)	45.0(7.8)
	1990	52.0(2.0)	50.8(3.0)	53.1(3.4)	53.5(2.3)	48.3(4.6)	39.0(5.9)
	1988	50.1(2.9)	46.3(3.6)	54.1(3.3)	50.9(3.0)	45.0(7.2)	46.8(XXX)
	1984	51.8(1.5)	49.0(1.9)	54.4(2.2)	55.1(1.7)	39.8(4.3)	39.3(6.8)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Boxball: Central purpose	1994	53.6(2.4)	51.6(3.4)	55.6(3.2)	58.0(2.5)	44.0(4.3)	***(***)
	1992	54.3(1.6)	52.8(2.3)	55.9(2.3)	59.5(1.6)	36.2(5.1)	37.4(8.2)
	1990	50.4(2.3)	51.4(2.6)	49.4(3.2)	56.1(2.9)	32.0(3.9)	30.0(4.2)
	1988	53.2(2.9)	51.7(3.5)	54.8(3.9)	57.3(3.3)	35.8(4.5)	48.9(XXX)
	1984	49.2(1.3)	46.0(1.5)	52.2(1.7)	53.0(1.4)	35.1(2.9)	32.6(4.8)
Boxball: Sequence	1994	39.1(2.0)	40.9(2.9)	37.3(2.4)	42.8(2.3)	30.0(4.8)	***(***)
	1992	44.1(1.7)	48.1(2.1)	39.9(2.2)	48.5(1.9)	24.5(4.0)	30.9(7.7)
	1990	35.4(2.2)	40.5(3.3)	30.2(2.9)	39.1(2.7)	26.2(5.2)	14.9(3.8)
	1988	40.5(2.2)	44.5(3.2)	36.3(2.4)	44.6(2.9)	26.3(3.9)	27.5(5.4)
	1984	38.3(1.1)	41.0(1.7)	35.7(1.8)	42.6(1.4)	23.1(2.8)	24.9(4.1)
Boxball: Main idea	1994	34.9(2.0)	31.2(2.9)	38.6(3.0)	38.7(2.5)	22.4(3.7)	***(***)
	1992	36.5(1.9)	32.9(3.0)	40.5(2.5)	41.4(2.1)	17.2(5.1)	23.1(4.2)
	1990	35.9(1.7)	31.1(2.4)	40.8(2.6)	40.4(2.2)	20.4(3.8)	21.8(5.6)
	1988	35.5(1.9)	35.4(2.3)	35.6(2.7)	37.6(2.4)	26.4(4.1)	37.9(6.5)
	1984	36.8(1.2)	35.6(1.5)	38.1(1.7)	39.6(1.4)	23.2(2.4)	33.9(5.0)
Boxball: Supporting idea	1994	58.2(2.1)	61.0(3.1)	55.5(3.0)	62.0(2.3)	48.2(4.4)	***(***)
	1992	59.3(2.1)	59.8(2.8)	58.8(3.0)	65.3(2.3)	35.8(5.0)	47.6(5.3)
	1990	55.2(1.5)	57.7(2.5)	52.5(2.5)	59.6(1.8)	37.1(4.9)	44.8(5.9)
	1988	59.9(2.0)	63.0(2.9)	56.7(3.3)	65.9(1.8)	37.6(4.8)	45.4(XXX)
	1984	54.7(1.3)	53.1(2.2)	56.2(1.8)	59.6(1.6)	34.6(2.8)	37.2(5.3)
Civics: Document description	1994	17.8(2.0)	20.8(2.6)	14.9(2.3)	19.7(2.3)	16.0(5.9)	***(***)
	1992	19.4(1.9)	17.5(2.4)	21.5(2.8)	21.7(2.3)	11.9(2.6)	12.4(4.2)
	1990	17.4(1.6)	18.3(2.2)	16.5(2.3)	18.8(1.9)	14.4(3.5)	10.6(3.8)
	1988	18.8(1.4)	16.6(2.2)	21.1(2.0)	17.7(1.9)	18.4(4.2)	24.6(7.0)
	1984	16.9(1.1)	16.1(1.3)	17.7(1.4)	17.8(1.3)	14.6(2.3)	10.1(2.8)
Civics: Importance of court	1994	44.0(2.1)	45.4(3.1)	42.7(2.9)	44.0(2.8)	50.6(5.0)	***(***)
	1992	45.4(2.0)	40.2(2.5)	51.0(2.7)	46.6(2.5)	36.3(4.7)	47.6(7.7)
	1990	43.4(2.0)	44.2(3.0)	42.6(2.8)	43.2(2.4)	40.6(6.2)	48.5(6.0)
	1988	48.8(2.3)	44.8(3.0)	52.9(3.2)	49.7(2.4)	47.1(7.9)	41.8(8.7)
	1984	45.6(1.5)	45.8(1.9)	45.4(1.7)	46.3(1.6)	43.5(3.3)	35.9(7.6)
Civics: Vocabulary	1994	5.0(0.7)	2.3(0.8)	7.6(1.5)	4.3(0.8)	5.5(2.9)	***(***)
	1992	6.0(1.0)	7.7(1.7)	4.3(1.1)	5.2(1.1)	8.4(2.3)	6.2(3.3)
	1990	5.9(1.0)	7.1(1.6)	4.6(1.3)	5.5(1.2)	8.1(3.7)	4.9(2.5)
	1988	7.6(1.1)	6.6(1.3)	8.7(1.9)	5.8(1.1)	11.0(4.0)	17.3(4.2)
	1984	6.8(0.6)	7.3(1.0)	6.4(0.9)	6.5(0.6)	8.6(1.7)	6.9(3.1)
Define nonsense word "tup"	1994	64.0(2.3)	57.5(3.5)	70.2(3.4)	66.6(2.6)	62.9(8.3)	***(***)
	1992	62.3(2.0)	58.2(2.4)	66.8(3.0)	67.2(2.3)	40.5(5.4)	51.4(6.1)
	1990	61.7(1.9)	60.3(2.7)	63.2(2.5)	66.5(2.0)	40.1(5.8)	60.7(6.0)
	1988	62.4(2.5)	62.0(3.2)	62.8(2.8)	64.4(2.9)	52.2(6.0)	56.6(XXX)
	1984	57.9(1.6)	53.7(2.3)	61.9(1.9)	62.4(1.8)	37.9(3.5)	46.0(5.1)
U.S. History: Transportation	1994	60.6(2.2)	55.3(3.5)	65.6(3.2)	63.4(2.7)	57.6(4.6)	***(***)
	1992	58.0(2.1)	56.1(2.8)	60.1(2.8)	63.2(2.1)	37.1(5.9)	50.5(7.1)
	1990	53.2(2.7)	49.6(3.7)	57.0(3.4)	55.6(3.2)	43.7(7.0)	51.5(7.8)
	1988	61.1(2.2)	58.2(2.8)	64.1(2.8)	64.5(2.6)	45.7(4.7)	57.3(9.1)
	1984	53.4(1.6)	50.7(2.2)	56.0(2.1)	59.0(1.9)	32.0(3.0)	35.0(7.3)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
U. S. History: Vocabulary	1994	34.2(2.5)	34.3(3.6)	34.0(3.4)	35.5(2.6)	30.6(4.9)	***(***)
	1992	32.6(2.3)	31.3(3.3)	34.0(2.4)	36.5(2.4)	17.1(4.6)	20.3(5.8)
	1990	36.5(2.0)	35.8(3.2)	37.2(2.4)	41.3(2.6)	23.9(4.1)	10.5(3.9)
	1988	33.0(2.5)	32.3(3.2)	33.8(3.2)	33.4(2.9)	27.1(4.2)	34.6(7.9)
	1984	34.7(1.5)	33.4(2.1)	36.0(1.8)	38.6(1.9)	18.3(2.9)	23.0(4.7)
Puzzle: Description of chair	1994	91.4(1.2)	89.9(1.7)	92.8(1.6)	92.7(1.0)	90.1(5.3)	***(***)
	1992	89.6(1.0)	85.9(1.6)	93.6(1.2)	92.9(1.1)	74.3(4.8)	83.7(4.3)
	1990	90.3(1.3)	85.6(2.2)	95.2(1.1)	91.8(1.3)	81.6(4.8)	90.1(4.2)
	1988	89.5(1.5)	88.0(2.0)	91.2(1.9)	91.6(1.7)	80.6(3.8)	86.1(6.5)
	1984	91.8(0.7)	89.7(1.0)	94.0(0.9)	92.7(0.7)	86.5(2.6)	90.8(2.2)
Character trait: Toy	1994	60.3(1.8)	56.8(3.2)	63.8(2.5)	64.3(2.1)	48.3(4.8)	***(***)
	1992	60.9(2.0)	56.4(2.8)	65.9(2.6)	64.4(2.2)	46.7(5.5)	52.4(5.6)
	1990	63.4(2.1)	58.0(3.5)	69.0(2.3)	69.8(2.3)	44.5(5.3)	37.8(4.3)
	1988	58.9(1.9)	53.6(3.2)	64.5(2.7)	62.6(2.2)	45.3(6.0)	51.1(XXX)
	1984	60.7(1.4)	57.4(1.6)	64.1(1.7)	63.7(1.5)	48.4(3.2)	49.0(XXX)
Frontier women: Description	1994	54.2(2.6)	53.0(3.4)	55.4(3.5)	58.2(2.5)	47.0(6.9)	***(***)
	1992	53.7(1.7)	49.5(2.2)	58.3(2.4)	59.6(2.0)	27.2(4.5)	42.8(5.9)
	1990	52.4(1.9)	45.9(2.5)	59.2(3.1)	56.8(2.1)	36.0(4.6)	37.4(6.4)
	1988	53.9(2.1)	50.5(3.4)	57.3(2.5)	59.6(2.5)	29.4(4.3)	43.9(6.9)
	1984	56.3(1.4)	52.5(2.0)	60.2(1.9)	60.4(1.4)	40.7(3.6)	38.9(8.4)
Frontier women: Activities	1994	46.4(2.5)	42.5(2.9)	50.1(3.3)	48.6(2.9)	39.2(7.1)	***(***)
	1992	49.3(1.8)	45.8(2.8)	53.1(2.5)	52.7(2.0)	33.5(5.1)	47.7(9.0)
	1990	44.8(2.0)	40.0(2.9)	49.7(2.7)	46.2(2.4)	44.8(5.7)	25.7(6.2)
	1988	42.8(1.9)	38.8(2.9)	46.9(2.6)	44.7(2.2)	36.2(4.3)	29.6(8.1)
	1984	47.1(1.1)	45.6(1.4)	48.7(1.7)	49.9(1.2)	36.1(2.8)	36.2(3.7)
Frontier women: products	1994	65.3(2.2)	61.6(3.2)	68.9(2.9)	70.7(2.3)	49.0(5.4)	***(***)
	1992	63.0(1.5)	58.5(2.3)	67.9(2.5)	68.5(1.4)	39.6(3.8)	52.8(9.8)
	1990	59.9(2.3)	56.0(3.4)	64.0(3.1)	65.3(2.7)	42.3(4.7)	43.2(6.2)
	1988	60.0(2.1)	56.7(2.8)	63.4(3.0)	63.6(2.5)	45.0(4.4)	43.4(XXX)
	1984	65.4(1.0)	63.7(1.5)	67.2(1.4)	70.8(1.1)	45.6(3.6)	42.5(5.2)
Dog & shadow fable: Inference	1994	64.1(2.3)	58.5(3.2)	69.7(3.1)	68.0(2.6)	53.0(6.0)	***(***)
	1992	63.7(1.7)	59.1(2.2)	68.6(2.1)	69.2(1.7)	37.3(5.5)	57.7(4.9)
	1990	68.0(2.0)	65.8(2.8)	70.2(2.4)	74.0(2.2)	46.4(6.3)	51.5(6.6)
	1988	68.1(2.1)	65.2(3.7)	71.1(3.0)	71.6(2.2)	56.1(5.4)	48.2(9.5)
	1984	67.3(1.4)	66.3(1.7)	68.3(1.8)	72.6(1.5)	47.3(3.7)	45.2(5.7)
Dog & shadow fable: Moral	1994	55.5(2.6)	53.6(3.8)	57.4(3.9)	57.5(2.9)	49.6(6.2)	***(***)
	1992	57.1(2.0)	54.1(2.4)	60.3(3.0)	60.2(2.3)	46.6(5.3)	43.0(7.8)
	1990	59.8(2.3)	63.5(3.6)	56.0(2.7)	65.7(2.8)	37.4(5.5)	45.3(8.2)
	1988	62.9(2.4)	61.4(2.4)	64.4(3.7)	68.3(3.0)	40.8(5.8)	47.7(XXX)
	1984	61.5(1.5)	58.9(1.8)	64.2(2.2)	66.4(1.6)	44.5(3.2)	36.6(9.2)
Sandwich: Major idea	1994	45.2(1.6)	42.8(2.8)	47.4(2.8)	48.5(2.1)	31.7(5.0)	***(***)
	1992	46.5(1.9)	45.8(2.7)	47.3(2.7)	49.1(2.1)	38.5(4.7)	31.4(7.5)
	1990	43.1(1.8)	42.8(2.7)	43.5(2.7)	45.9(2.3)	33.1(5.7)	32.4(6.2)
	1988	41.0(2.4)	39.8(3.2)	42.4(3.1)	42.2(2.7)	37.6(6.1)	27.3(8.4)
	1984	42.0(1.6)	43.6(2.1)	40.4(2.1)	44.5(2.0)	30.4(1.8)	31.3(3.1)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Sandwich: Supporting idea	1994	61.0(2.0)	56.0(3.7)	65.7(3.4)	64.7(2.4)	50.3(6.6)	***(***)
	1992	62.3(1.8)	57.5(2.5)	67.5(2.6)	67.9(1.8)	38.6(6.1)	47.5(8.3)
	1990	61.4(1.9)	55.1(2.7)	68.2(2.7)	66.4(2.2)	46.9(6.2)	38.4(6.5)
	1988	56.5(3.0)	53.9(3.3)	59.1(3.7)	58.6(3.8)	41.9(6.2)	56.8(9.8)
	1984	65.0(1.3)	61.2(1.6)	68.9(1.5)	67.6(1.6)	53.2(3.8)	53.1(5.8)
Result of food chain	1994	65.9(2.1)	67.3(3.8)	64.7(2.6)	69.3(1.9)	58.3(8.7)	***(***)
	1992	66.4(2.1)	61.8(2.6)	71.5(2.4)	70.6(2.5)	48.6(6.8)	59.0(5.5)
	1990	68.1(2.1)	66.6(3.2)	69.6(2.4)	70.8(2.4)	57.7(7.1)	59.4(5.8)
	1988	68.1(1.9)	63.1(3.0)	73.1(2.7)	70.1(2.7)	55.9(5.8)	64.8(8.3)
	1984	66.3(1.2)	63.8(1.9)	68.8(1.6)	69.1(1.2)	56.0(3.4)	49.4(XXX)
Food chain main idea	1994	47.1(2.4)	42.3(3.3)	51.6(4.5)	49.9(3.0)	40.9(7.3)	***(***)
	1992	47.8(2.2)	44.4(2.5)	51.3(3.2)	52.3(2.4)	29.7(5.7)	35.9(8.5)
	1990	46.9(2.3)	42.3(3.6)	51.6(2.8)	49.0(2.2)	46.4(8.3)	31.4(5.4)
	1988	46.4(1.9)	45.3(2.7)	47.5(3.1)	48.3(1.9)	30.7(4.6)	43.8(XXX)
	1984	46.6(1.3)	45.8(2.0)	47.4(1.7)	49.3(1.5)	31.3(3.6)	35.2(4.6)
Best title for Scott story	1994	32.1(1.8)	31.3(3.6)	33.1(3.2)	32.1(2.1)	35.9(6.0)	29.8(5.6)
	1992	31.0(2.0)	31.0(2.8)	30.9(2.7)	30.8(2.2)	32.0(3.8)	30.7(8.2)
	1990	30.6(1.8)	30.5(1.9)	30.7(2.4)	31.2(2.2)	30.4(5.8)	28.0(5.9)
	1988	32.2(1.7)	26.0(1.9)	38.4(3.0)	33.7(2.3)	29.1(5.0)	27.3(7.4)
	1984	30.5(1.4)	29.8(1.7)	31.3(1.9)	31.1(1.7)	30.6(3.8)	22.1(4.7)
Scott story fact	1994	51.6(1.9)	50.1(2.6)	53.3(2.8)	54.2(2.2)	40.5(5.9)	40.2(7.1)
	1992	50.7(1.7)	45.1(2.5)	56.3(2.6)	52.0(1.9)	45.3(4.7)	43.3(7.0)
	1990	47.2(2.2)	42.9(2.7)	51.3(3.3)	49.6(2.5)	44.0(4.8)	41.2(5.0)
	1988	55.0(2.0)	46.8(3.0)	63.3(2.7)	56.4(2.6)	50.3(5.7)	54.2(6.6)
	1984	47.4(1.0)	43.9(1.6)	51.0(1.3)	49.0(1.3)	43.1(2.8)	39.2(4.2)
Scott story definition	1994	15.4(1.9)	14.6(2.1)	15.9(2.6)	17.2(2.4)	11.4(4.3)	9.6(3.1)
	1992	14.7(1.3)	14.9(1.8)	14.5(1.9)	15.0(1.6)	12.7(2.5)	14.1(6.5)
	1990	12.5(1.4)	10.7(1.8)	14.2(2.1)	13.3(1.5)	12.2(4.3)	2.0(1.9)
	1988	12.1(1.3)	11.6(1.7)	12.7(2.6)	12.4(1.6)	9.2(2.9)	19.0(5.8)
	1984	16.1(0.9)	15.6(0.9)	16.6(1.6)	16.1(0.9)	16.3(1.5)	10.8(2.3)
Snowman: Best description	1994	77.6(1.9)	75.5(2.9)	79.6(2.2)	81.0(1.9)	62.0(5.3)	76.7(6.1)
	1992	78.3(1.4)	73.6(2.1)	83.0(2.3)	82.1(1.7)	71.5(5.0)	59.2(5.9)
	1990	77.2(1.8)	72.8(2.5)	81.5(2.2)	79.0(2.1)	71.6(4.5)	66.9(5.0)
	1988	81.4(1.7)	80.9(2.5)	81.8(2.8)	84.2(2.2)	71.2(4.9)	68.4(6.7)
	1984	83.8(0.9)	82.0(1.1)	85.7(1.4)	85.6(1.1)	74.7(2.0)	80.4(5.8)
Character trait: Clown	1994	84.4(1.5)	80.0(2.5)	89.1(2.0)	87.2(1.4)	77.4(5.9)	73.2(5.9)
	1992	83.7(1.3)	79.8(2.3)	87.6(1.6)	88.4(1.6)	67.4(3.9)	70.6(4.9)
	1990	85.4(1.8)	82.1(2.8)	88.5(2.4)	86.1(2.0)	83.3(3.5)	88.4(5.2)
	1988	87.6(2.1)	81.8(4.7)	93.3(1.7)	88.4(2.4)	86.3(6.1)	76.7(8.7)
	1984	86.0(1.1)	82.1(1.8)	90.1(1.3)	87.8(1.3)	78.0(2.7)	82.1(4.7)
Nonsense word 1	1994	67.7(2.1)	67.0(2.3)	68.5(3.3)	72.1(1.9)	56.1(6.8)	52.5(7.5)
	1992	68.5(1.4)	68.3(2.2)	68.6(2.0)	73.2(1.6)	55.0(4.7)	47.9(7.8)
	1990	67.1(1.9)	65.7(2.6)	68.5(2.9)	70.8(2.0)	53.0(4.8)	58.0(6.1)
	1988	69.1(2.1)	67.5(3.5)	70.7(3.0)	72.0(2.7)	61.4(4.4)	44.9(8.7)
	1984	66.4(1.4)	63.9(1.5)	69.1(1.9)	69.2(1.5)	56.2(3.7)	58.9(8.1)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Fact about pet care	1994	34.6(1.9)	30.7(3.4)	38.4(3.1)	38.8(2.6)	20.5(4.5)	22.2(6.1)
	1992	31.4(1.7)	27.8(2.4)	35.0(2.3)	35.9(2.4)	16.5(3.8)	26.2(5.4)
	1990	28.5(1.9)	22.3(2.4)	34.5(2.3)	32.1(2.0)	19.3(4.5)	12.6(4.2)
	1988	34.8(2.4)	29.6(3.4)	40.0(2.2)	38.0(3.1)	24.1(4.7)	14.6(5.7)
	1984	35.6(1.3)	32.5(1.4)	38.8(1.7)	40.3(1.7)	21.7(2.6)	17.8(2.5)
Fact about health of pet	1994	40.3(2.4)	41.5(3.8)	39.2(3.6)	45.8(3.3)	17.4(4.2)	29.0(6.4)
	1992	44.2(1.5)	41.6(2.3)	46.7(2.1)	46.5(2.0)	41.3(5.0)	39.3(5.8)
	1990	40.0(1.7)	35.1(2.1)	44.6(3.3)	45.0(2.1)	24.8(4.6)	26.5(5.4)
	1988	40.1(1.8)	36.1(2.8)	44.1(3.1)	42.1(2.3)	33.7(4.9)	25.4(4.8)
	1984	42.8(1.1)	38.9(1.6)	46.9(1.9)	46.7(1.2)	30.4(2.8)	28.3(6.3)
Tooth poem: Speaker's identity	1994	72.6(2.2)	67.5(3.2)	78.2(2.9)	74.8(2.2)	63.7(5.0)	62.5(6.1)
	1992	73.5(1.9)	68.4(2.9)	78.4(2.4)	75.3(2.6)	72.3(3.5)	67.8(7.6)
	1990	70.7(1.7)	62.5(2.9)	78.5(2.4)	74.0(1.9)	57.3(5.0)	61.3(8.2)
	1988	70.1(2.5)	66.8(3.6)	73.4(2.8)	71.9(3.0)	57.8(5.4)	74.1(6.1)
	1984	70.0(1.4)	62.3(2.1)	78.0(1.4)	73.2(1.3)	57.7(4.3)	58.7(XXX)
Tooth poem: Major event	1994	37.4(1.8)	34.5(2.8)	40.6(3.0)	38.5(2.2)	30.3(5.9)	38.3(7.7)
	1992	33.5(1.8)	29.7(2.5)	37.1(2.2)	38.2(2.2)	15.0(4.2)	27.9(6.8)
	1990	33.8(1.5)	29.4(2.4)	38.1(2.8)	36.4(1.7)	21.4(4.6)	34.6(7.7)
	1988	37.0(2.4)	35.7(3.0)	38.3(4.0)	39.1(2.8)	28.4(6.3)	21.3(4.9)
	1984	36.1(1.4)	33.3(2.0)	39.0(1.8)	40.3(1.5)	22.2(2.3)	23.3(4.7)
Tooth poem: Vocabulary	1994	27.7(1.8)	29.8(3.1)	25.2(2.5)	29.7(2.2)	20.7(5.5)	19.7(5.1)
	1992	27.4(1.4)	28.4(2.3)	26.5(2.4)	30.8(1.6)	18.5(3.9)	10.2(4.5)
	1990	24.7(1.7)	21.8(2.5)	27.5(2.2)	27.1(2.0)	15.5(3.7)	26.2(9.7)
	1988	28.0(2.3)	29.7(2.0)	26.2(4.1)	29.7(2.6)	17.5(4.6)	25.7(6.2)
	1984	25.0(1.1)	25.6(1.3)	24.4(1.7)	27.2(1.2)	16.9(2.3)	20.2(5.4)
Advertisement for carrier	1994	43.0(2.6)	38.6(3.0)	47.8(3.4)	48.8(3.4)	19.2(5.6)	***(***)
	1992	43.4(1.6)	35.8(2.7)	51.6(2.4)	48.9(2.0)	26.7(3.6)	29.5(6.9)
	1990	43.0(2.0)	36.5(2.6)	49.9(3.3)	47.0(2.2)	29.3(4.1)	27.3(6.4)
	1988	45.7(1.9)	43.2(3.6)	48.0(2.6)	50.3(2.1)	23.4(3.8)	31.9(4.4)
	1984	45.4(1.4)	43.3(1.9)	47.5(1.6)	51.2(1.7)	27.1(2.0)	25.5(3.4)
Carrier job requirements	1994	63.0(2.0)	59.8(2.6)	66.4(2.9)	67.8(2.3)	40.1(6.0)	***(***)
	1992	60.6(1.6)	59.9(2.6)	61.3(2.5)	66.2(2.1)	39.8(3.9)	52.9(6.1)
	1990	62.3(2.0)	66.1(2.6)	58.2(2.8)	63.1(2.2)	57.8(4.9)	57.2(6.4)
	1988	55.8(2.1)	56.4(2.5)	55.2(3.4)	58.1(2.5)	47.7(6.7)	45.0(4.8)
	1984	61.2(1.0)	60.4(1.5)	62.0(1.3)	65.0(1.1)	49.5(2.7)	46.5(2.3)
Carrier job responsibilities	1994	49.6(2.0)	44.9(2.7)	54.6(3.0)	54.6(2.3)	24.6(4.2)	***(***)
	1992	54.2(1.9)	49.8(3.2)	58.8(2.7)	58.6(2.3)	41.3(3.9)	45.8(5.9)
	1990	51.7(2.3)	51.4(3.7)	52.1(3.0)	54.1(2.5)	44.0(5.5)	38.2(5.0)
	1988	53.7(2.3)	50.1(3.0)	57.3(3.3)	56.5(2.1)	42.5(5.7)	44.9(8.9)
	1984	48.7(1.2)	43.4(1.8)	54.0(1.3)	53.1(1.4)	33.3(2.1)	32.5(2.8)
Silky story fact	1994	74.4(1.6)	71.1(1.9)	77.8(2.7)	78.6(2.2)	56.6(5.8)	***(***)
	1992	68.8(1.5)	64.3(2.5)	73.7(2.0)	72.5(1.8)	57.6(4.5)	56.3(6.4)
	1990	73.1(2.0)	70.5(2.5)	75.9(2.8)	76.9(2.1)	64.8(4.9)	56.7(6.1)
	1988	71.1(2.7)	70.8(3.0)	71.3(3.2)	72.8(3.0)	60.1(4.9)	70.5(9.7)
	1984	72.7(1.1)	69.4(1.4)	75.9(1.4)	76.2(1.1)	59.0(3.1)	61.9(2.3)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
History of gold rush fact	1994	28.0(2.2)	27.6(2.2)	28.4(3.2)	29.4(2.2)	20.5(6.4)	***(***)
	1992	29.6(1.6)	27.2(1.7)	32.2(2.2)	31.9(1.8)	24.1(2.9)	16.8(6.6)
	1990	29.4(1.7)	28.5(2.5)	30.3(2.8)	32.1(1.9)	24.7(4.4)	13.1(4.4)
	1988	37.7(2.9)	37.0(4.5)	38.5(3.2)	40.3(3.5)	24.1(5.8)	33.6(6.5)
	1984	30.0(1.1)	29.5(1.3)	30.5(1.3)	32.1(1.3)	21.8(1.9)	24.4(2.7)
Winnie drawing	1994	86.4(1.3)	87.1(1.8)	85.6(2.0)	91.5(1.2)	61.4(5.6)	***(***)
	1992	86.6(1.3)	85.0(1.9)	88.4(1.9)	90.3(1.1)	76.8(5.0)	80.4(6.8)
	1990	85.7(1.2)	84.6(2.1)	86.9(1.9)	86.6(1.5)	86.0(3.7)	72.7(6.6)
	1988	84.7(2.2)	84.8(3.2)	84.7(2.6)	86.3(2.6)	77.8(2.9)	80.9(5.3)
	1984	87.3(0.5)	87.1(0.8)	87.4(0.7)	89.8(0.6)	77.9(2.7)	80.6(1.6)
Angry poem: Resolution	1994	51.1(2.4)	44.5(3.2)	58.1(4.0)	55.5(2.9)	33.8(4.6)	***(***)
	1992	52.7(2.0)	49.0(3.1)	56.7(2.9)	56.6(2.4)	40.6(4.0)	39.9(6.3)
	1990	50.1(2.2)	48.2(3.1)	52.1(3.2)	56.3(2.7)	36.3(4.5)	17.6(3.1)
	1988	52.4(2.3)	53.3(3.1)	51.4(2.8)	56.0(2.8)	35.4(5.2)	45.2(6.1)
	1984	51.9(1.0)	49.4(1.5)	54.3(1.2)	57.6(1.2)	36.3(2.0)	26.1(3.5)
Stars article: Process	1994	47.3(2.4)	44.5(3.4)	50.5(4.0)	48.6(2.9)	37.5(9.6)	***(***)
	1992	49.7(1.9)	46.4(3.1)	53.2(2.7)	53.9(2.6)	30.7(3.2)	42.3(7.2)
	1990	44.9(2.1)	44.6(2.8)	45.1(2.9)	49.3(2.7)	31.6(5.6)	33.5(6.4)
	1988	51.9(2.3)	53.6(2.4)	50.2(3.8)	55.6(2.7)	38.9(4.7)	33.2(9.3)
	1984	50.6(1.4)	50.4(1.7)	50.8(1.7)	54.0(1.4)	39.3(3.3)	36.2(3.6)
Stars article: Central purpose	1994	48.8(2.7)	43.6(3.1)	54.6(4.8)	53.4(3.0)	***(***)	***(***)
	1992	51.4(1.9)	45.7(2.9)	57.7(2.9)	55.9(2.4)	34.7(5.2)	43.1(6.0)
	1990	54.4(2.1)	56.6(2.9)	52.2(3.1)	59.3(2.7)	35.0(5.6)	38.3(8.3)
	1988	57.7(2.8)	57.1(4.1)	58.2(3.4)	62.2(3.0)	33.0(4.5)	50.3(4.8)
	1984	48.1(1.3)	46.1(2.0)	50.0(1.4)	53.3(1.4)	28.5(2.9)	31.2(6.0)
Stars article: Evidence	1994	40.5(2.3)	37.0(2.6)	44.5(3.7)	44.6(2.8)	***(***)	***(***)
	1992	41.2(1.9)	36.6(2.7)	46.2(2.8)	45.0(2.3)	25.7(3.8)	38.0(8.8)
	1990	41.4(2.0)	45.3(2.7)	37.5(3.1)	43.4(2.4)	35.1(6.2)	23.8(5.3)
	1988	45.7(2.7)	43.9(3.4)	47.3(3.7)	48.3(2.5)	37.2(8.2)	32.1(5.0)
	1984	42.6(1.5)	41.8(1.9)	43.3(1.6)	46.4(1.6)	29.7(2.9)	25.3(4.6)
Sentence completion: "Wind"	1994	58.3(2.3)	53.8(3.0)	63.2(3.8)	61.1(2.3)	***(***)	***(***)
	1992	61.4(1.8)	59.6(2.7)	63.4(2.6)	66.5(2.3)	45.1(6.3)	48.9(9.0)
	1990	60.8(2.3)	60.3(3.4)	61.3(3.0)	63.3(3.1)	51.2(5.0)	48.1(7.0)
	1988	61.1(2.2)	61.6(4.5)	60.7(2.2)	64.7(2.6)	38.3(4.7)	56.6(7.5)
	1984	64.5(0.9)	62.2(1.6)	66.7(1.0)	68.7(1.0)	47.0(2.6)	55.2(4.6)
Reporter: Recall information	1994	58.4(1.7)	58.9(2.3)	58.0(1.9)	62.1(1.8)	42.7(4.5)	46.6(6.1)
	1992	60.4(1.3)	58.8(1.4)	62.1(2.1)	64.4(1.3)	46.1(3.4)	46.4(4.9)
	1990	61.3(1.6)	59.8(2.4)	62.8(1.8)	65.5(1.7)	43.8(4.8)	59.1(3.5)
	1988	64.4(1.5)	61.0(1.8)	68.1(2.2)	67.1(1.8)	50.9(3.9)	56.7(7.3)
	1984	59.1(1.3)	60.1(1.5)	58.1(1.6)	63.5(1.6)	43.1(2.8)	47.4(1.8)
Reporter: Change of style	1994	45.8(1.9)	45.9(2.4)	45.7(2.6)	49.1(2.1)	33.4(4.2)	30.6(4.5)
	1992	44.8(1.2)	43.4(1.5)	46.2(2.2)	48.8(1.6)	29.2(3.8)	38.4(4.6)
	1990	44.1(1.6)	43.4(2.0)	44.7(2.1)	48.7(2.1)	25.6(3.3)	36.3(4.1)
	1988	44.7(1.8)	44.9(2.3)	44.6(2.3)	46.6(2.0)	35.1(3.6)	38.9(3.9)
	1984	43.8(1.2)	43.7(1.7)	43.9(1.5)	47.1(1.4)	29.8(2.8)	37.5(1.9)

*** Sample size insufficient to permit a reliable estimate.
The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Reporter: Resolution	1994	67.6(1.8)	63.9(2.8)	71.1(2.1)	72.2(1.6)	45.7(4.6)	56.6(5.9)
	1992	65.9(1.3)	62.5(1.5)	69.4(1.9)	69.9(1.4)	52.1(3.9)	49.0(4.5)
	1990	62.8(1.9)	57.2(2.6)	68.6(2.4)	67.7(2.0)	43.6(4.3)	53.4(4.2)
	1988	65.0(1.8)	58.6(2.5)	71.7(2.1)	68.9(2.4)	47.9(3.4)	52.5(5.0)
	1984	64.4(1.1)	60.6(1.4)	68.1(1.6)	69.8(1.4)	44.3(2.9)	50.9(4.1)
Reporter: Reason for change	1994	50.6(1.8)	51.8(2.5)	49.5(2.2)	55.6(1.8)	30.5(4.1)	37.9(7.1)
	1992	50.1(1.4)	47.9(1.6)	52.4(2.2)	54.5(1.7)	31.4(2.7)	42.0(4.5)
	1990	50.6(1.8)	47.2(2.5)	54.1(2.1)	56.5(2.2)	28.3(5.9)	38.6(4.5)
	1988	50.0(1.7)	46.9(2.8)	53.2(1.8)	54.4(2.1)	30.6(3.4)	33.4(5.7)
	1984	49.7(1.1)	47.6(1.4)	51.8(1.6)	54.2(1.4)	35.2(2.5)	35.2(2.6)
Identifying science passage	1994	49.3(2.1)	49.4(2.7)	49.2(2.5)	53.0(2.2)	33.2(5.2)	40.7(7.0)
	1992	48.9(1.2)	48.7(1.9)	49.2(1.8)	52.6(1.5)	34.0(3.1)	33.7(5.8)
	1990	49.6(1.6)	48.1(2.1)	51.1(2.3)	54.3(1.9)	32.4(3.3)	42.1(5.9)
	1988	50.5(1.2)	51.0(2.1)	50.1(2.3)	54.1(1.5)	35.2(4.5)	36.2(5.2)
	1984	46.6(1.4)	46.7(2.0)	46.6(1.7)	51.5(1.5)	27.8(2.6)	36.5(2.9)
Author's viewpoint about dogs	1994	44.0(1.7)	42.7(2.1)	45.2(2.4)	46.6(1.8)	36.9(3.6)	29.8(5.6)
	1992	49.1(1.4)	49.3(2.0)	48.8(2.4)	52.4(1.7)	37.2(3.5)	39.6(2.8)
	1990	47.0(1.6)	43.8(2.6)	50.3(1.8)	49.4(1.9)	41.3(2.9)	36.5(4.9)
	1988	49.5(1.7)	47.1(2.5)	52.1(2.1)	52.0(1.9)	45.9(3.7)	28.6(5.1)
	1984	46.0(1.0)	44.2(1.3)	47.9(1.4)	48.4(1.1)	38.9(2.6)	35.9(3.1)
Skunk cabbage: Reason for name	1994	56.1(1.6)	57.1(2.4)	55.0(2.4)	59.7(1.5)	39.8(5.5)	45.2(4.8)
	1992	57.1(1.5)	54.4(1.8)	59.9(2.3)	61.3(1.8)	39.4(3.9)	50.2(3.9)
	1990	58.1(1.6)	54.9(2.2)	61.3(2.0)	63.7(1.8)	34.7(3.7)	48.4(4.1)
	1988	59.1(1.9)	57.7(2.9)	60.6(2.1)	63.1(2.2)	41.1(3.6)	45.8(5.4)
	1984	57.2(1.2)	55.5(1.6)	58.8(1.5)	62.6(1.6)	35.4(1.8)	43.3(3.1)
Skunk cabbage: Description	1994	50.5(1.4)	49.6(2.0)	51.4(2.0)	52.6(1.9)	43.1(3.0)	40.6(4.7)
	1992	51.3(1.3)	49.4(1.9)	53.3(1.8)	53.7(1.6)	43.5(2.8)	38.2(5.3)
	1990	52.2(1.9)	51.0(2.3)	53.5(2.5)	55.9(2.3)	38.7(3.2)	41.8(4.1)
	1988	51.0(2.0)	49.2(1.9)	53.0(3.2)	52.9(2.3)	41.1(3.3)	42.7(4.0)
	1984	49.1(1.1)	47.1(1.6)	51.1(1.6)	53.8(1.4)	34.3(2.7)	32.6(2.5)
Breathing: Result of breathing	1994	40.0(1.7)	38.7(2.5)	41.2(2.0)	41.0(2.0)	39.4(5.1)	35.1(4.4)
	1992	38.4(1.8)	39.1(1.8)	37.7(2.3)	41.1(2.2)	33.8(3.1)	21.1(3.5)
	1990	39.9(1.4)	41.9(1.9)	37.8(1.7)	41.8(1.6)	36.2(4.3)	35.9(5.8)
	1988	39.5(1.6)	40.4(2.7)	38.4(2.0)	39.5(1.9)	38.2(5.5)	44.1(4.8)
	1984	37.8(1.4)	38.7(1.6)	36.9(1.6)	39.8(1.4)	29.9(1.9)	34.6(8.2)
Breathing: Air moves to lungs	1994	44.8(1.7)	48.1(1.8)	41.6(2.6)	47.2(2.1)	36.0(4.4)	29.8(6.4)
	1992	44.6(1.5)	45.6(2.4)	43.6(1.8)	48.5(2.0)	31.4(2.9)	30.7(4.8)
	1990	45.0(1.9)	45.2(2.2)	44.8(2.4)	47.9(2.0)	33.7(4.6)	36.3(6.1)
	1988	45.1(1.9)	45.4(1.9)	44.9(3.0)	47.7(2.3)	34.4(3.4)	31.3(5.0)
	1984	44.3(1.5)	45.2(1.6)	43.4(1.9)	48.4(1.7)	32.0(2.5)	29.8(5.0)
Breathing: Function of sacs	1994	32.5(1.9)	33.3(2.4)	31.7(2.5)	31.1(2.6)	40.0(5.0)	32.2(5.0)
	1992	31.0(1.3)	32.5(1.7)	29.5(1.8)	32.7(1.7)	21.4(2.4)	33.0(4.7)
	1990	28.7(1.4)	26.8(1.9)	30.7(2.0)	29.5(1.6)	22.1(3.7)	30.4(3.4)
	1988	32.1(2.0)	31.2(2.1)	33.0(3.0)	33.4(2.3)	27.4(3.6)	27.2(4.9)
	1984	30.4(0.7)	33.0(1.4)	27.8(1.5)	31.7(1.0)	24.8(2.2)	29.0(3.3)

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Breathing: Formation of CO₂	1994	27.8(1.8)	28.0(2.2)	27.6(2.1)	30.8(2.0)	15.5(2.7)	20.3(4.2)
	1992	28.0(1.5)	27.6(1.7)	28.4(2.1)	30.3(1.9)	19.7(1.8)	18.5(4.7)
	1990	27.4(1.6)	25.6(2.0)	29.4(2.3)	30.7(2.0)	17.9(2.3)	21.6(3.2)
	1988	25.6(1.8)	22.4(1.7)	29.0(2.5)	27.6(2.3)	16.3(2.0)	13.0(3.1)
	1984	26.3(1.1)	24.2(1.5)	28.4(1.1)	28.9(1.4)	18.0(1.9)	16.3(3.4)
Bullfight: Main idea	1994	57.9(2.2)	57.5(3.1)	58.2(3.0)	64.3(2.7)	35.1(4.9)	42.5(6.7)
	1992	58.0(2.1)	61.4(2.3)	54.5(3.4)	63.0(2.3)	43.6(4.2)	37.7(5.0)
	1990	53.5(2.5)	52.6(3.6)	54.5(3.2)	59.9(3.0)	32.8(5.3)	30.8(4.3)
	1988	57.0(1.9)	55.8(3.0)	58.1(3.3)	61.5(2.2)	39.5(5.1)	36.0(9.0)
	1984	53.0(1.2)	54.8(2.0)	51.2(1.7)	57.2(1.3)	37.8(3.5)	43.0(2.5)
Author's unhappy feelings	1994	77.5(1.7)	71.4(3.0)	82.8(2.1)	80.7(1.8)	68.0(4.6)	63.7(6.6)
	1992	79.3(1.7)	73.6(2.7)	85.1(2.0)	83.9(2.0)	63.8(4.5)	66.5(5.4)
	1990	77.0(1.9)	70.3(2.9)	84.3(1.8)	81.2(2.1)	62.0(4.3)	66.0(6.1)
	1988	84.4(1.8)	79.4(2.8)	89.2(1.9)	87.5(2.0)	74.0(5.9)	64.8(6.3)
	1984	81.1(1.2)	79.4(1.5)	82.7(1.6)	84.8(1.2)	70.4(3.1)	68.9(5.1)
Alien story: Character trait	1994	43.2(2.4)	40.9(2.9)	45.2(3.1)	47.5(2.7)	26.7(6.0)	31.6(5.7)
	1992	43.9(1.9)	40.2(2.4)	47.6(2.8)	47.3(1.9)	33.1(5.8)	34.4(6.4)
	1990	39.9(2.2)	36.2(2.8)	43.8(2.7)	45.2(2.5)	21.1(4.5)	22.4(7.0)
	1988	40.1(2.1)	34.8(2.8)	45.2(4.3)	45.2(2.5)	22.0(3.6)	23.3(6.5)
	1984	38.9(1.6)	36.5(2.2)	41.3(1.6)	43.1(2.1)	28.2(2.7)	21.1(2.1)
Alien story: Problem	1994	64.7(2.3)	61.4(3.8)	67.5(2.7)	68.3(2.5)	50.4(4.8)	55.3(7.6)
	1992	64.0(1.8)	62.6(2.5)	65.3(2.4)	69.6(2.0)	49.4(3.9)	39.7(5.0)
	1990	56.3(2.0)	49.5(2.9)	63.8(2.3)	59.5(2.2)	45.3(5.3)	43.8(6.5)
	1988	60.1(1.6)	55.5(2.2)	64.5(2.5)	64.7(2.0)	45.2(4.0)	43.5(7.8)
	1984	59.1(1.7)	59.7(2.0)	58.5(2.0)	63.1(1.8)	44.2(4.1)	49.7(3.2)
Alien story: Resolution	1994	44.8(2.1)	40.5(3.1)	48.4(3.0)	48.4(2.4)	30.5(5.5)	27.3(6.4)
	1992	47.4(1.8)	46.0(2.2)	48.8(2.7)	52.7(2.1)	27.5(4.8)	36.3(5.0)
	1990	43.1(2.4)	40.8(2.7)	45.5(3.6)	46.9(2.4)	29.3(5.1)	35.2(5.3)
	1988	41.5(2.0)	35.3(2.8)	47.4(3.0)	47.7(2.0)	22.0(3.9)	16.9(5.4)
	1984	39.9(1.6)	43.0(2.0)	37.0(1.8)	43.5(2.1)	28.1(2.9)	29.6(4.5)
Timothy story: Recall action	1994	66.7(2.0)	65.9(3.2)	67.4(2.7)	68.3(2.1)	62.7(5.7)	51.9(6.3)
	1992	68.2(1.5)	63.0(2.3)	73.6(2.4)	71.9(1.7)	57.9(3.9)	56.0(6.9)
	1990	65.6(1.9)	58.6(3.1)	73.2(2.3)	69.2(2.4)	58.0(4.3)	41.3(6.5)
	1988	68.1(2.4)	62.0(3.4)	73.9(3.4)	69.7(2.5)	63.3(5.6)	54.0(8.3)
	1984	66.7(1.3)	63.6(1.6)	69.7(1.7)	71.0(1.4)	55.8(3.2)	46.0(3.8)
Connect dots: Along a line	1994	68.7(2.3)	62.1(3.6)	74.3(2.6)	70.0(2.6)	68.8(4.1)	***(***)
	1992	68.4(1.7)	68.0(3.0)	68.8(2.2)	70.8(2.1)	61.5(5.4)	54.3(6.8)
	1990	70.8(1.9)	65.2(2.6)	76.9(2.4)	74.4(2.5)	58.1(4.0)	61.9(5.8)
	1988	75.8(1.8)	71.1(3.3)	80.2(2.6)	78.8(1.9)	59.6(4.8)	74.8(7.4)
	1984	70.1(1.4)	67.3(1.7)	72.7(1.8)	72.2(1.5)	67.3(2.9)	56.9(8.1)
Connect dots: Touching circles	1994	66.8(2.6)	62.7(3.2)	70.3(3.4)	69.6(3.1)	59.5(6.0)	***(***)
	1992	73.6(1.7)	71.6(2.5)	75.6(2.0)	77.0(1.8)	61.7(5.4)	70.1(6.7)
	1990	71.3(2.3)	65.4(3.1)	77.6(2.6)	76.3(2.8)	51.4(4.8)	59.1(6.8)
	1988	72.5(2.0)	70.0(2.5)	74.8(2.9)	75.9(2.1)	58.4(4.2)	55.5(8.2)
	1984	86.3(1.0)	85.0(1.4)	87.6(1.3)	87.8(1.0)	81.7(2.7)	83.1(5.7)

*** Sample size insufficient to permit a reliable estimate.
The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 9

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Connect dots: Write in circles	1994	79.0(1.9)	70.9(3.1)	86.0(1.9)	81.2(2.0)	71.8(5.5)	***(***)
	1992	85.0(1.1)	82.4(2.1)	87.6(1.9)	86.5(1.4)	77.5(4.8)	84.8(5.9)
	1990	82.7(1.7)	79.0(2.4)	86.5(1.8)	86.3(2.0)	68.8(5.2)	70.3(7.7)
	1988	86.1(1.6)	82.1(2.3)	89.8(2.3)	88.2(1.6)	74.8(3.8)	83.4(5.8)
	1984	88.0(0.7)	86.2(1.4)	89.7(1.0)	89.8(0.9)	81.9(1.9)	83.1(3.6)

*** Sample size insufficient to permit a reliable estimate.
The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 13

Weighted percentage correct by subgroups across assessment years

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Find picture fact	1994	54.4(1.8)	63.6(2.4)	44.9(2.8)	52.0(1.8)	69.8(5.2)	***(***)
	1992	52.2(2.0)	64.1(2.7)	41.1(3.1)	49.3(2.0)	57.1(5.5)	60.9(7.1)
	1990	56.3(2.5)	65.1(3.1)	47.4(3.2)	55.9(2.8)	56.2(6.1)	58.1(7.2)
	1988	59.6(2.2)	70.8(2.6)	48.7(3.6)	59.1(2.4)	59.2(4.6)	61.4(XXX)
	1984	70.0(0.9)	74.8(1.0)	64.7(1.3)	69.6(1.1)	73.3(3.3)	69.5(3.7)
Document: Phone calls	1994	46.2(2.2)	38.1(2.3)	54.6(3.0)	48.0(2.5)	42.8(7.2)	***(***)
	1992	47.1(2.2)	44.6(3.3)	49.4(3.2)	49.5(2.9)	34.7(4.7)	43.5(6.9)
	1990	45.1(2.0)	44.4(2.7)	45.9(2.6)	46.7(2.8)	42.8(5.4)	36.6(6.1)
	1988	46.6(1.7)	42.3(3.1)	50.8(3.0)	48.2(1.6)	37.4(5.2)	39.2(9.4)
	1984	47.2(1.2)	44.4(1.9)	50.3(1.8)	48.4(1.5)	40.5(2.5)	45.0(2.9)
Document: Phone services	1994	38.8(1.9)	30.8(2.8)	47.0(2.5)	42.2(2.3)	18.8(4.7)	***(***)
	1992	39.9(2.0)	35.8(3.0)	43.7(2.5)	41.9(2.2)	34.7(5.9)	25.3(6.9)
	1990	43.0(2.0)	35.7(2.5)	50.3(2.7)	44.4(2.5)	38.3(4.8)	35.8(5.7)
	1988	42.3(1.8)	38.6(2.6)	45.8(3.1)	42.7(1.9)	39.7(5.0)	46.6(8.4)
	1984	47.1(1.1)	41.1(1.6)	53.6(1.9)	48.4(1.2)	38.3(2.5)	45.9(5.0)
Coupon document: Limitations	1994	66.2(2.3)	64.4(2.2)	68.1(3.1)	71.0(2.5)	46.6(6.3)	***(***)
	1992	66.5(2.2)	66.7(2.5)	66.4(3.3)	71.0(2.3)	52.9(5.1)	58.0(7.1)
	1990	67.3(1.8)	63.0(2.9)	71.5(2.0)	70.7(2.0)	56.9(5.5)	54.9(6.9)
	1988	67.7(2.0)	65.4(2.9)	69.9(3.0)	70.9(2.4)	54.2(5.9)	58.9(6.8)
	1984	63.7(1.1)	60.2(1.6)	67.7(1.8)	67.2(1.2)	51.6(3.0)	51.1(3.2)
Coupon document: Expiration	1994	92.9(1.2)	92.1(1.8)	93.7(1.7)	94.5(1.1)	89.3(3.8)	***(***)
	1992	92.6(1.0)	90.2(1.5)	94.8(1.3)	93.9(1.1)	88.7(3.1)	89.8(4.5)
	1990	95.2(0.9)	93.9(1.4)	96.5(1.0)	96.7(0.7)	89.0(4.4)	95.4(2.5)
	1988	95.0(0.9)	93.6(1.5)	96.4(1.1)	96.0(1.1)	90.4(2.3)	94.6(4.2)
	1984	92.6(0.5)	91.4(0.9)	94.0(0.8)	93.3(0.6)	87.6(1.4)	93.4(2.4)
Coupon: Value	1994	41.8(2.0)	37.0(2.7)	46.9(3.3)	45.2(2.2)	28.3(4.2)	***(***)
	1992	44.9(2.2)	44.7(2.6)	45.2(3.0)	47.5(2.6)	40.4(4.5)	28.7(6.6)
	1990	45.4(2.1)	41.1(3.0)	49.6(2.4)	49.0(2.3)	33.4(6.0)	34.8(5.0)
	1988	45.9(2.1)	45.6(3.2)	46.2(3.3)	49.4(2.4)	30.9(3.5)	27.3(8.8)
	1984	47.7(1.2)	45.9(1.8)	49.6(1.6)	50.4(1.4)	35.7(2.9)	41.3(3.5)
Carad poem	1994	65.3(1.8)	57.7(3.2)	73.2(3.6)	70.3(1.8)	44.9(8.1)	***(***)
	1992	61.0(2.2)	54.2(3.2)	67.4(2.7)	64.4(2.8)	50.6(4.9)	53.5(6.9)
	1990	58.8(2.0)	56.9(3.0)	60.7(3.0)	62.3(2.1)	48.6(5.3)	36.7(7.3)
	1988	59.9(1.8)	57.1(3.0)	62.6(2.6)	65.0(2.1)	41.9(4.5)	33.2(8.4)
	1984	58.6(1.1)	55.3(1.5)	62.2(1.7)	61.8(1.2)	45.4(3.9)	49.8(2.9)
Nut story: Plan	1994	92.6(1.3)	88.2(2.3)	97.2(0.9)	94.0(1.5)	88.7(4.0)	***(***)
	1992	94.3(1.4)	93.1(2.0)	95.5(1.5)	97.0(1.1)	85.2(5.2)	96.2(3.2)
	1990	95.6(0.7)	93.8(1.3)	97.4(0.8)	95.7(0.9)	97.6(1.6)	90.9(3.7)
	1988	97.5(0.6)	95.8(1.3)	99.2(0.5)	97.5(0.7)	96.7(1.1)	100.0(0.0)
	1984	93.4(0.7)	90.7(0.9)	96.3(0.7)	94.2(0.7)	89.1(2.3)	92.7(1.6)
Nut story: Problem	1994	76.3(2.0)	70.7(3.4)	82.2(2.8)	80.3(2.2)	56.9(5.5)	***(***)
	1992	81.0(2.2)	78.9(3.1)	83.0(2.4)	84.8(2.1)	66.3(6.1)	76.1(6.6)
	1990	81.9(1.6)	77.9(2.4)	86.0(2.0)	85.1(1.8)	77.1(6.4)	57.3(6.0)
	1988	79.1(1.4)	77.4(2.3)	80.7(2.2)	80.5(1.4)	68.9(4.6)	84.2(7.5)
	1984	78.5(1.1)	75.6(1.5)	81.8(1.1)	80.6(1.2)	67.0(3.5)	77.4(2.8)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Nut story: Goal	1994	86.7(1.3)	82.9(1.8)	90.6(1.5)	88.8(1.3)	78.0(4.9)	***(***)
	1992	89.5(1.4)	86.2(2.5)	92.6(1.8)	91.8(1.2)	80.4(4.9)	92.7(3.8)
	1990	88.3(1.4)	84.5(2.3)	92.1(1.4)	88.3(1.6)	95.3(2.8)	80.3(5.4)
	1988	90.0(1.3)	87.0(2.0)	92.9(1.8)	90.7(1.4)	82.2(5.1)	99.3(0.9)
	1984	84.1(1.2)	81.4(1.5)	87.1(1.3)	84.8(1.4)	79.8(2.5)	84.4(3.3)
Nut story: Outcome	1994	77.7(1.9)	72.3(3.0)	83.2(2.4)	81.7(2.4)	61.1(6.3)	***(***)
	1992	81.4(1.7)	79.5(2.4)	83.2(2.3)	84.0(1.7)	69.4(5.6)	81.0(6.6)
	1990	81.8(1.7)	77.9(2.4)	85.7(2.0)	85.4(1.6)	71.9(7.2)	59.0(4.5)
	1988	84.7(1.7)	80.6(2.2)	88.7(2.1)	85.0(1.8)	83.2(4.5)	85.3(4.4)
	1984	80.5(1.0)	77.9(1.5)	83.4(1.3)	83.4(1.1)	65.2(3.2)	76.7(2.8)
History: Definition	1994	72.8(2.2)	69.1(3.7)	77.0(2.1)	75.7(2.6)	63.9(4.8)	***(***)
	1992	74.3(1.9)	70.6(2.8)	77.9(2.5)	80.3(1.9)	58.2(6.6)	44.7(6.1)
	1990	75.3(2.1)	75.8(3.0)	74.7(2.5)	79.5(2.0)	69.3(7.2)	61.2(7.5)
	1988	76.7(1.9)	71.3(2.7)	81.7(2.0)	79.9(2.2)	69.2(5.2)	53.8(8.0)
	1984	74.4(0.7)	70.7(1.1)	78.2(1.2)	78.8(0.7)	60.8(2.6)	54.7(3.0)
History: Survival	1994	83.9(1.6)	84.0(2.1)	83.8(2.0)	86.7(1.9)	76.5(3.3)	***(***)
	1992	84.4(1.5)	84.9(2.2)	83.8(2.5)	87.2(1.4)	70.7(6.0)	78.2(6.6)
	1990	82.6(1.6)	84.6(2.1)	80.6(2.3)	84.5(2.0)	77.0(3.9)	78.5(7.6)
	1988	84.2(1.7)	83.9(2.6)	84.5(1.9)	84.5(2.1)	81.5(4.1)	81.9(5.7)
	1984	82.4(0.9)	81.7(1.4)	83.2(0.9)	85.2(1.1)	72.1(2.3)	72.8(3.0)
History: Location	1994	63.6(2.2)	66.4(2.8)	60.9(2.6)	68.8(2.6)	49.7(4.5)	***(***)
	1992	66.5(2.1)	67.0(2.9)	66.0(2.8)	70.1(2.1)	50.3(7.3)	50.2(7.0)
	1990	63.9(1.9)	64.0(2.6)	63.7(2.8)	67.7(2.1)	57.9(6.4)	50.5(8.7)
	1988	63.9(2.1)	63.6(3.0)	64.1(2.9)	64.9(2.2)	59.4(5.1)	54.8(6.9)
	1984	62.1(0.9)	63.2(1.3)	60.9(1.2)	65.0(0.8)	50.1(3.0)	52.3(4.2)
History: Main purpose	1994	68.5(1.5)	67.5(2.6)	69.9(2.5)	74.2(2.4)	47.5(6.0)	***(***)
	1992	69.3(1.9)	67.1(3.2)	71.4(2.6)	74.4(2.3)	48.1(5.4)	45.9(6.8)
	1990	67.6(2.2)	68.6(2.8)	66.6(2.7)	70.7(2.2)	56.5(6.2)	64.1(5.7)
	1988	68.3(1.9)	69.3(3.5)	67.3(3.2)	70.7(2.4)	50.1(6.5)	75.1(7.0)
	1984	64.3(1.2)	62.6(1.7)	66.0(1.3)	68.5(1.3)	47.0(3.0)	51.6(3.6)
Club document: Fees	1994	73.1(2.0)	68.6(2.7)	77.9(2.9)	78.9(2.0)	55.3(6.5)	***(***)
	1992	78.5(1.5)	76.6(2.8)	80.3(2.0)	84.6(1.3)	58.6(5.5)	54.0(5.8)
	1990	76.3(1.6)	73.1(2.5)	79.5(2.2)	80.8(1.7)	68.4(5.8)	60.2(7.5)
	1988	73.5(1.7)	66.1(2.9)	80.4(2.2)	74.9(2.0)	61.1(5.7)	72.4(9.3)
	1984	70.4(1.0)	68.3(1.3)	72.5(1.5)	74.4(0.9)	56.0(3.3)	56.9(4.2)
Club document: Billing	1994	28.0(2.1)	30.8(2.8)	24.9(2.9)	28.9(2.5)	26.3(6.4)	***(***)
	1992	28.1(1.6)	26.0(2.2)	30.2(2.4)	28.2(2.0)	20.6(4.8)	37.9(5.8)
	1990	28.5(1.9)	23.1(2.6)	33.8(2.3)	31.3(2.8)	22.0(5.5)	21.8(6.6)
	1988	28.9(2.4)	27.7(3.3)	29.9(2.7)	28.6(2.8)	29.8(7.2)	30.9(XXX)
	1984	26.2(0.8)	24.7(1.2)	27.7(1.1)	27.5(0.8)	18.9(2.7)	25.2(3.6)
Club document: Requirements	1994	62.4(2.3)	55.8(3.3)	69.5(2.9)	66.8(2.3)	51.5(7.7)	***(***)
	1992	61.0(2.8)	60.1(4.1)	62.0(3.1)	63.6(3.3)	51.6(5.8)	46.9(7.0)
	1990	63.6(2.1)	58.9(3.3)	68.3(2.7)	65.0(2.3)	63.3(4.8)	48.0(7.4)
	1988	67.1(1.9)	61.7(3.1)	72.2(1.9)	66.6(2.1)	75.4(5.5)	52.6(XXX)
	1984	64.2(0.9)	60.9(1.5)	67.5(1.1)	66.9(1.1)	57.5(2.5)	46.5(4.8)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Fly story: Problem	1994	7.4(1.0)	8.4(1.5)	6.2(1.3)	8.3(1.3)	5.6(3.1)	***(***)
	1992	7.3(0.9)	5.6(1.3)	8.9(1.7)	7.5(1.1)	7.9(2.3)	2.0(1.4)
	1990	6.2(0.9)	6.8(1.4)	5.7(1.4)	5.3(1.0)	8.4(3.3)	8.5(2.2)
	1988	8.3(1.0)	8.2(2.2)	8.4(1.5)	9.8(1.3)	4.3(2.6)	0.0(0.0)
	1984	8.6(0.5)	9.1(0.9)	8.2(0.7)	7.8(0.6)	11.8(1.5)	9.7(2.5)
Fly story: Resolution	1994	47.3(1.8)	44.0(2.8)	50.8(2.5)	52.8(2.3)	31.3(4.6)	***(***)
	1992	49.3(1.9)	46.2(2.9)	52.3(2.3)	50.8(2.3)	46.3(7.3)	32.6(4.5)
	1990	43.2(2.1)	43.0(2.4)	43.5(2.8)	46.5(2.3)	30.8(5.9)	35.2(5.0)
	1988	45.0(2.5)	41.3(3.6)	48.4(2.8)	47.1(2.6)	34.3(6.4)	40.9(XXX)
	1984	43.4(0.8)	41.1(1.1)	45.8(1.3)	45.3(1.0)	36.2(3.2)	38.3(5.0)
Charley1 story: Problem	1994	56.5(2.1)	53.7(2.6)	59.6(3.6)	61.2(2.7)	38.4(5.6)	***(***)
	1992	60.4(1.6)	58.6(2.3)	62.0(2.4)	64.2(2.0)	45.6(5.4)	45.3(6.2)
	1990	59.0(1.7)	51.4(2.4)	66.4(2.5)	62.4(1.8)	46.8(5.8)	51.8(6.4)
	1988	57.3(2.4)	51.7(3.2)	62.6(2.6)	60.3(2.4)	42.5(9.1)	30.3(8.0)
	1984	61.5(1.2)	56.1(1.6)	66.9(1.3)	64.0(1.3)	53.2(3.5)	46.2(4.6)
Flying: 1st machine	1994	63.4(2.0)	64.2(3.2)	62.7(2.7)	71.1(2.2)	35.6(4.7)	52.9(6.2)
	1992	63.9(2.0)	64.0(3.1)	63.9(2.4)	69.6(2.1)	49.7(5.6)	41.3(XXX)
	1990	61.9(1.7)	66.0(2.2)	57.9(2.3)	66.5(1.8)	47.6(6.8)	45.3(7.0)
	1988	64.7(2.0)	67.7(2.5)	61.8(3.4)	68.4(2.4)	60.0(6.8)	34.4(XXX)
	1984	62.1(1.1)	65.6(1.5)	58.4(1.5)	67.3(1.3)	41.6(3.3)	46.2(3.9)
Flying: Types of planes	1994	68.5(1.9)	65.2(3.2)	71.6(3.5)	74.1(2.3)	55.5(5.3)	48.4(5.2)
	1992	68.1(2.1)	70.3(2.9)	66.2(3.0)	72.4(2.4)	56.7(5.8)	50.2(8.5)
	1990	65.8(1.7)	66.0(2.5)	65.6(2.3)	69.8(2.0)	57.6(6.5)	56.7(6.6)
	1988	64.4(1.6)	63.1(2.6)	65.7(2.8)	67.4(2.0)	58.5(5.2)	42.2(7.1)
	1984	66.8(1.2)	66.3(1.2)	67.5(1.9)	69.5(1.3)	57.5(3.4)	57.2(3.0)
Flying: Differences	1994	76.2(1.5)	77.2(2.8)	75.2(2.3)	79.8(1.8)	62.6(6.0)	68.2(6.2)
	1992	76.9(1.6)	75.5(2.4)	78.2(2.2)	81.7(1.7)	61.1(5.4)	62.2(8.5)
	1990	73.8(1.4)	75.1(2.3)	72.5(2.3)	78.2(1.8)	59.1(6.3)	60.6(6.7)
	1988	71.7(1.9)	74.6(2.0)	69.0(3.8)	74.9(2.0)	61.9(6.6)	56.5(7.5)
	1984	73.3(1.0)	73.9(1.4)	72.6(1.5)	77.6(1.1)	53.3(3.1)	65.3(2.0)
Science: Research	1994	36.7(2.3)	37.3(2.8)	36.1(3.3)	38.9(2.8)	28.1(5.0)	32.7(6.1)
	1992	42.8(2.3)	39.8(2.9)	45.6(3.1)	45.5(2.9)	34.3(5.4)	35.0(XXX)
	1990	39.4(2.2)	37.8(3.2)	41.0(2.9)	40.1(2.5)	32.7(5.9)	39.3(7.5)
	1988	41.4(1.9)	38.4(2.4)	44.3(2.5)	42.2(2.4)	33.7(4.2)	50.3(7.3)
	1984	39.6(1.1)	38.7(1.4)	40.5(1.9)	41.0(1.2)	32.4(3.1)	37.8(3.2)
Science: Evidence	1994	33.3(1.4)	31.0(2.4)	35.5(2.3)	36.2(1.6)	22.3(4.7)	30.8(7.0)
	1992	37.6(2.6)	34.4(3.5)	40.5(3.2)	40.4(2.9)	35.6(6.2)	13.8(7.8)
	1990	34.9(1.9)	30.0(2.6)	39.6(2.4)	38.7(2.1)	30.5(7.1)	14.0(4.8)
	1988	31.5(2.5)	29.4(2.5)	33.6(3.2)	33.2(2.9)	29.5(5.7)	11.4(4.8)
	1984	31.5(1.1)	28.4(1.7)	34.8(1.3)	34.7(1.3)	19.6(2.3)	20.6(4.5)
Phone call date	1994	72.6(2.0)	67.3(2.5)	77.5(2.6)	76.8(2.0)	63.1(7.4)	55.4(6.0)
	1992	70.1(1.7)	65.0(3.5)	74.7(2.0)	75.0(1.9)	52.3(5.2)	64.8(6.4)
	1990	67.9(1.9)	63.9(2.6)	71.7(2.6)	73.3(2.2)	51.0(5.6)	52.5(5.1)
	1988	66.8(2.3)	61.1(3.5)	72.2(2.6)	70.6(2.7)	54.0(5.7)	51.7(6.5)
	1984	65.0(1.4)	62.7(1.8)	67.4(1.9)	69.8(1.5)	47.6(3.5)	46.3(3.1)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Document: Phone location	1994	80.6(1.8)	78.8(2.7)	82.3(2.2)	84.9(1.9)	62.9(6.5)	78.9(5.3)
	1992	80.2(1.6)	79.5(2.3)	80.8(2.4)	85.4(1.6)	63.9(5.4)	63.5(XXX)
	1990	78.3(1.8)	74.0(2.5)	82.4(2.2)	82.7(1.9)	67.7(5.0)	64.7(7.0)
	1988	76.0(1.9)	71.7(2.9)	80.1(2.5)	77.7(2.2)	70.9(4.4)	69.9(4.4)
	1984	77.6(1.2)	77.0(1.5)	78.2(1.5)	79.6(1.3)	71.1(2.2)	69.3(4.2)
Document: Phone charge	1994	86.8(1.6)	84.3(2.7)	89.0(2.3)	88.6(1.5)	80.4(4.8)	84.0(4.3)
	1992	85.3(1.7)	81.0(2.9)	89.1(1.8)	87.0(1.8)	80.9(3.7)	80.7(7.1)
	1990	85.5(1.5)	78.1(2.4)	92.6(1.2)	87.2(1.5)	81.3(4.6)	82.1(5.1)
	1988	88.9(1.4)	86.7(2.2)	91.1(1.4)	89.8(1.5)	87.9(3.6)	78.7(8.3)
	1984	84.6(0.9)	81.7(1.1)	87.8(1.2)	86.5(1.0)	78.9(3.1)	77.5(3.4)
Myth: Exaggeration	1994	77.1(1.8)	77.3(2.5)	76.9(2.5)	80.6(2.0)	66.8(3.4)	61.9(8.1)
	1992	75.1(1.9)	77.4(2.4)	72.8(2.5)	77.9(2.2)	64.6(6.0)	67.4(6.2)
	1990	78.1(1.3)	76.6(1.8)	80.0(2.4)	82.3(1.6)	68.5(5.2)	61.2(5.2)
	1988	81.7(1.8)	81.3(2.4)	82.1(2.3)	83.2(1.9)	75.2(5.0)	74.3(6.0)
	1984	76.6(1.4)	75.6(2.0)	77.6(1.6)	80.0(1.3)	60.5(3.9)	67.3(5.1)
Story: Prediction about Mary	1994	60.2(1.8)	54.0(2.7)	66.6(2.2)	61.6(1.9)	54.6(6.7)	54.8(9.0)
	1992	58.5(2.0)	55.5(3.4)	61.8(2.5)	59.1(2.4)	57.3(7.4)	56.0(8.0)
	1990	58.4(2.1)	53.3(3.4)	64.4(2.5)	61.3(2.7)	48.5(5.9)	57.9(5.5)
	1988	63.9(2.0)	61.7(2.9)	66.2(2.6)	64.7(2.0)	63.0(5.9)	63.9(7.9)
	1984	58.5(1.2)	55.5(1.7)	61.5(1.8)	60.3(1.2)	54.7(3.0)	48.1(7.0)
Science: Cue words	1994	53.4(2.2)	49.4(3.5)	57.5(2.7)	55.2(2.7)	52.4(6.2)	35.4(5.1)
	1992	50.8(1.9)	46.2(3.1)	55.8(3.2)	54.7(2.2)	31.9(4.3)	49.4(7.4)
	1990	52.0(1.7)	49.8(2.5)	54.6(2.4)	52.6(2.0)	50.7(6.0)	48.4(6.7)
	1988	49.3(2.4)	46.0(2.5)	52.9(4.1)	50.9(2.8)	40.3(4.6)	55.1(7.9)
	1984	44.0(1.2)	42.0(1.6)	46.1(1.4)	46.2(1.4)	35.4(2.2)	33.6(7.1)
Biography: Honors	1994	84.1(2.0)	76.8(3.2)	91.9(1.8)	86.1(1.9)	77.0(6.5)	*** (***)
	1992	89.5(1.6)	86.4(2.4)	92.7(1.9)	90.6(1.9)	89.9(3.2)	76.9(4.0)
	1990	84.4(1.4)	79.6(2.1)	90.1(1.8)	86.5(1.6)	79.5(5.3)	75.0(3.6)
	1988	88.1(1.6)	83.5(2.5)	93.1(1.5)	89.0(1.9)	82.2(4.9)	91.6(4.9)
	1984	85.4(1.2)	82.2(1.5)	88.5(1.5)	87.1(1.2)	74.1(3.0)	84.6(4.6)
Biography: Accomplishments	1994	88.7(1.5)	82.8(2.4)	94.9(1.2)	89.6(1.5)	85.7(4.0)	*** (***)
	1992	91.2(1.7)	88.4(2.8)	94.1(1.8)	91.1(2.1)	91.6(3.5)	90.5(4.3)
	1990	87.7(1.4)	84.3(2.5)	91.7(1.5)	88.6(1.4)	83.8(5.1)	83.7(5.6)
	1988	90.8(1.3)	88.1(1.9)	93.7(1.2)	90.0(1.6)	91.4(4.1)	94.0(3.8)
	1984	89.5(0.7)	85.9(1.3)	93.0(0.8)	90.7(0.7)	81.4(2.5)	89.9(3.0)
Sport history: Popularity	1994	81.9(1.6)	85.3(2.2)	78.6(2.2)	83.7(1.7)	76.4(6.3)	75.6(6.3)
	1992	82.3(1.6)	85.7(1.6)	79.3(2.7)	83.7(1.7)	79.6(4.2)	77.2(7.9)
	1990	80.1(1.7)	79.7(2.2)	80.4(2.5)	82.1(1.7)	75.9(5.2)	74.5(5.3)
	1988	76.0(1.4)	75.6(1.7)	76.4(2.5)	80.3(1.7)	57.7(4.4)	68.6(6.1)
	1984	76.2(1.0)	73.2(1.6)	79.4(1.2)	77.9(1.3)	69.1(2.7)	71.4(3.9)
Sport history: Royalty	1994	80.9(1.7)	77.6(1.9)	84.1(2.0)	84.7(2.0)	66.0(5.2)	75.6(5.1)
	1992	82.1(1.8)	78.3(2.7)	85.5(2.0)	84.8(1.8)	76.1(4.9)	59.9(9.7)
	1990	77.2(1.7)	73.1(2.6)	81.1(2.3)	80.3(1.6)	70.7(6.5)	64.6(6.6)
	1988	78.7(1.7)	75.5(2.8)	81.8(2.3)	80.7(2.1)	73.8(4.8)	64.4(9.3)
	1984	78.0(1.1)	76.3(1.7)	79.9(1.1)	80.1(1.3)	69.6(2.5)	70.1(2.9)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Sport history: General	1994	65.2(2.5)	60.6(2.9)	69.5(3.4)	67.6(3.3)	55.9(5.0)	61.8(5.5)
	1992	67.7(2.3)	62.9(3.1)	72.0(2.3)	68.5(2.9)	62.3(5.9)	65.1(8.3)
	1990	65.1(1.8)	61.3(2.9)	68.8(2.4)	66.7(2.2)	66.1(4.5)	54.3(5.1)
	1988	66.6(2.4)	66.0(3.4)	67.2(3.6)	67.6(2.7)	63.1(5.3)	60.6(XXX)
	1984	62.3(1.5)	59.6(2.1)	65.3(2.1)	64.4(1.7)	55.5(3.9)	57.0(4.3)
Sport history: English	1994	53.1(1.8)	50.6(2.5)	55.4(3.1)	57.0(2.4)	38.5(4.9)	46.4(4.7)
	1992	54.9(1.9)	54.7(2.9)	55.2(2.9)	55.3(2.5)	53.3(4.4)	44.9(8.5)
	1990	52.8(2.0)	53.1(2.8)	52.6(3.4)	52.6(2.2)	48.5(7.4)	63.4(6.3)
	1988	52.4(1.8)	55.3(2.6)	49.6(2.8)	53.0(2.2)	45.9(5.5)	57.4(6.8)
	1984	55.1(1.3)	58.0(1.8)	52.0(1.6)	57.5(1.5)	46.7(3.0)	48.5(6.4)
Sport history: Contemporary	1994	78.8(1.5)	82.5(2.7)	75.3(1.7)	83.9(1.9)	59.2(7.1)	69.9(7.6)
	1992	81.6(1.4)	82.8(2.0)	80.6(2.4)	87.6(1.6)	63.9(4.7)	56.7(XXX)
	1990	78.3(1.8)	80.7(2.3)	76.0(2.7)	81.5(1.9)	67.8(6.4)	66.5(7.5)
	1988	79.1(1.6)	82.2(2.5)	76.0(3.1)	82.0(1.6)	69.4(6.4)	68.3(7.3)
	1984	79.0(1.1)	82.5(1.1)	75.1(1.9)	82.6(1.4)	64.8(2.6)	67.2(2.5)
Civics: Document description	1994	32.3(1.9)	31.2(2.8)	33.4(2.7)	35.9(2.3)	16.0(5.1)	34.3(5.6)
	1992	34.1(2.5)	31.6(3.4)	36.4(3.2)	35.0(2.9)	27.5(5.1)	31.0(XXX)
	1990	33.0(1.9)	29.0(2.5)	36.9(2.5)	34.5(2.0)	32.1(5.3)	24.5(6.3)
	1988	33.8(2.3)	28.2(3.0)	39.1(3.5)	35.8(2.5)	31.5(4.5)	13.8(5.3)
	1984	30.1(1.1)	27.4(1.6)	33.0(1.5)	32.9(1.3)	21.5(2.5)	19.7(4.2)
Civics: Importance of court	1994	58.8(2.6)	57.3(3.0)	60.1(3.6)	59.1(2.8)	56.7(6.4)	59.5(8.1)
	1992	58.4(2.4)	58.5(3.8)	58.3(2.7)	60.8(2.4)	54.9(5.8)	42.1(XXX)
	1990	59.1(1.9)	55.4(3.0)	62.8(2.2)	58.3(2.3)	60.7(5.5)	71.6(5.2)
	1988	57.5(3.0)	54.3(4.2)	60.6(4.0)	58.6(3.3)	59.4(5.5)	39.9(9.2)
	1984	57.1(1.3)	55.3(1.6)	59.0(1.7)	57.8(1.4)	53.3(3.0)	57.4(2.5)
Civics: Vocabulary	1994	7.9(0.9)	7.7(1.4)	8.1(1.6)	9.9(1.3)	1.5(1.0)	6.0(4.0)
	1992	6.4(1.2)	7.6(1.7)	5.3(1.6)	7.5(1.6)	5.8(2.2)	0.0(0.0)
	1990	7.3(1.0)	9.0(1.8)	5.6(1.3)	8.0(1.3)	5.3(2.0)	4.2(1.7)
	1988	6.0(1.1)	6.9(1.7)	5.2(1.3)	5.8(1.1)	5.3(2.7)	7.6(4.6)
	1984	9.5(0.6)	9.9(1.0)	9.0(0.8)	9.7(0.7)	10.6(1.6)	5.3(1.3)
U.S. History: Transportation	1994	84.7(1.4)	79.6(2.6)	89.5(1.7)	89.0(1.5)	72.6(5.3)	***(***)
	1992	84.6(1.6)	82.0(2.5)	86.8(1.9)	88.2(1.5)	76.3(5.9)	72.5(9.9)
	1990	85.9(1.3)	84.2(1.8)	87.6(1.8)	87.6(1.5)	79.5(4.0)	81.1(7.0)
	1988	84.1(1.7)	80.0(2.3)	88.1(2.3)	86.1(1.7)	84.8(4.2)	55.0(6.9)
	1984	84.5(0.9)	81.2(1.3)	88.2(1.0)	87.1(1.0)	74.4(2.9)	74.2(4.1)
U.S. History: Vocabulary	1994	73.6(2.1)	73.8(2.6)	73.4(2.7)	80.5(2.0)	52.1(6.4)	***(***)
	1992	75.0(2.1)	71.2(3.2)	78.4(2.4)	78.6(2.3)	62.6(5.0)	56.7(9.6)
	1990	73.4(2.3)	72.5(3.1)	74.3(3.0)	77.1(2.6)	64.0(5.7)	61.5(7.0)
	1988	74.4(2.1)	72.2(3.0)	76.5(3.2)	79.2(2.3)	61.1(5.8)	45.5(8.1)
	1984	74.6(1.0)	73.0(1.7)	76.3(1.6)	78.8(1.2)	60.1(2.9)	56.2(5.5)
Summer job: Apply for SS card	1994	79.0(1.9)	75.8(3.2)	82.8(2.0)	80.9(2.1)	70.2(4.9)	***(***)
	1992	78.2(1.7)	74.9(2.4)	81.2(2.8)	80.9(2.0)	70.9(4.0)	70.7(4.6)
	1990	76.5(1.7)	71.9(2.4)	80.9(2.2)	78.9(1.9)	69.2(5.7)	65.5(6.9)
	1988	78.5(1.5)	76.1(2.8)	80.9(2.3)	81.5(1.9)	71.7(4.7)	62.5(4.6)
	1984	74.9(1.3)	70.6(1.4)	79.0(1.6)	77.7(1.2)	61.8(3.5)	70.3(4.3)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Summer job: When to look	1994	55.0(1.8)	49.1(2.9)	61.8(2.6)	60.3(2.1)	40.7(3.6)	***(***)
	1992	56.7(2.0)	51.8(3.3)	61.1(2.6)	59.9(2.4)	46.8(5.8)	47.6(7.8)
	1990	56.7(1.9)	51.5(2.8)	61.6(2.4)	59.7(1.9)	52.1(5.1)	38.6(6.7)
	1988	57.1(2.1)	50.5(3.1)	63.4(3.1)	59.1(2.5)	54.9(4.6)	43.4(8.1)
	1984	57.6(1.3)	51.5(1.8)	63.5(1.6)	60.9(1.6)	39.6(2.9)	55.8(5.0)
Summer job: Documents needed	1994	58.1(2.5)	51.6(3.3)	65.5(3.7)	64.2(2.2)	36.8(6.6)	***(***)
	1992	61.1(2.3)	56.1(3.6)	65.4(3.1)	64.7(3.1)	42.7(5.2)	69.3(4.9)
	1990	59.6(1.9)	58.2(3.1)	60.8(2.7)	63.6(1.9)	53.4(5.0)	43.1(9.8)
	1988	54.3(1.9)	51.4(3.0)	57.2(2.3)	56.6(2.4)	50.1(3.9)	40.9(7.3)
	1984	55.7(1.5)	52.2(1.8)	59.2(1.6)	59.2(1.4)	40.3(3.0)	45.4(4.8)
Summer job: Job references	1994	47.5(2.5)	40.8(3.1)	55.2(3.2)	51.4(2.6)	28.6(5.4)	***(***)
	1992	51.1(2.0)	41.2(2.4)	59.8(3.2)	53.4(2.1)	41.3(4.8)	43.0(8.1)
	1990	47.7(2.0)	39.9(2.4)	55.1(2.8)	52.1(2.3)	36.4(6.0)	33.0(5.0)
	1988	50.2(2.3)	46.0(3.5)	54.3(3.0)	54.4(2.3)	32.8(5.4)	38.4(6.1)
	1984	45.2(1.1)	43.5(1.9)	46.8(1.4)	47.5(1.2)	34.1(3.8)	41.4(3.4)
Bobby story fact	1994	71.5(2.1)	70.2(2.9)	73.3(2.7)	75.0(2.9)	64.1(6.3)	***(***)
	1992	75.2(1.9)	65.9(2.9)	83.4(2.3)	77.3(2.0)	69.2(4.9)	68.6(6.1)
	1990	68.8(1.9)	62.8(2.5)	74.6(2.5)	71.6(1.8)	64.3(5.0)	58.5(6.6)
	1988	73.6(1.7)	70.5(3.0)	76.7(2.5)	73.8(2.0)	80.0(4.0)	58.2(7.8)
	1984	72.3(1.1)	68.0(1.4)	76.4(1.6)	75.8(1.2)	55.3(2.8)	64.2(3.5)
Central Park story main idea	1994	70.1(2.3)	63.0(4.1)	78.5(1.7)	72.0(2.6)	65.0(6.1)	***(***)
	1992	69.7(1.9)	66.8(3.0)	72.3(2.4)	70.4(2.4)	70.4(6.2)	65.4(6.5)
	1990	65.5(1.8)	60.3(2.9)	70.5(2.6)	69.1(2.3)	55.6(5.3)	53.2(7.8)
	1988	66.1(2.2)	61.4(3.2)	70.5(2.6)	67.6(2.3)	64.4(6.4)	48.3(7.2)
	1984	66.5(1.0)	64.2(1.5)	68.7(1.4)	68.9(1.1)	54.6(3.3)	60.9(4.9)
Comparison of characteristics	1994	72.5(2.5)	70.7(3.6)	74.5(2.3)	77.1(2.8)	58.9(6.3)	***(***)
	1992	69.8(2.2)	63.9(2.8)	75.0(3.0)	72.7(2.5)	57.2(6.0)	70.8(9.4)
	1990	71.6(1.8)	69.6(2.5)	73.4(2.5)	73.9(2.0)	69.9(5.0)	56.5(8.6)
	1988	67.7(2.1)	64.2(3.6)	71.0(2.4)	71.6(2.2)	58.8(5.0)	42.9(6.4)
	1984	67.7(1.4)	64.8(1.7)	70.5(2.0)	70.0(1.3)	56.7(3.4)	63.3(6.0)
Steps in performing a trick	1994	87.0(2.0)	82.0(3.1)	92.6(1.6)	88.1(2.5)	83.2(3.0)	***(***)
	1992	83.1(1.7)	79.5(3.0)	86.2(2.6)	85.5(1.9)	77.0(4.5)	68.5(9.9)
	1990	87.6(1.3)	84.3(1.6)	90.7(1.8)	89.3(1.5)	85.4(4.4)	81.5(5.4)
	1988	84.5(1.3)	79.0(2.7)	89.5(1.5)	84.6(1.6)	85.8(3.5)	80.6(8.8)
	1984	82.7(1.0)	77.3(1.5)	87.7(1.5)	84.9(1.0)	70.7(4.1)	79.2(4.0)
Setting for a trick	1994	67.3(1.8)	63.5(2.5)	71.7(2.3)	69.8(2.2)	57.1(4.6)	***(***)
	1992	66.4(1.8)	64.5(2.7)	68.0(2.8)	70.2(2.0)	50.4(6.3)	54.6(XXX)
	1990	63.4(1.8)	59.2(2.7)	67.3(2.4)	67.8(2.1)	48.0(6.7)	46.2(9.5)
	1988	69.1(1.9)	63.4(2.7)	74.4(2.4)	68.8(2.3)	70.5(3.8)	63.5(9.1)
	1984	69.2(1.6)	66.0(2.1)	72.2(1.9)	71.9(1.5)	55.8(5.1)	62.3(6.1)
Result of food chain	1994	79.4(1.9)	72.4(3.1)	87.4(2.0)	80.5(2.6)	76.3(4.7)	***(***)
	1992	78.6(1.9)	72.2(2.6)	83.9(2.3)	81.5(1.8)	62.1(5.9)	79.8(8.2)
	1990	75.3(2.0)	70.5(2.7)	79.9(2.2)	77.7(2.0)	66.2(5.7)	65.1(7.7)
	1988	80.7(2.1)	76.9(3.2)	84.2(2.5)	81.2(2.4)	78.4(4.9)	75.6(XXX)
	1984	78.3(1.1)	75.7(1.0)	80.7(1.7)	81.0(1.1)	62.9(3.6)	70.3(9.0)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Food chain main idea	1994	69.5(2.4)	65.4(3.7)	74.0(2.8)	71.5(2.6)	68.2(5.1)	***(***)
	1992	66.2(2.3)	65.0(3.2)	67.3(3.5)	69.2(2.6)	52.3(6.2)	55.1(6.3)
	1990	66.7(2.3)	64.5(2.9)	68.9(3.0)	67.9(2.5)	57.7(5.8)	65.6(9.9)
	1988	66.0(2.0)	65.6(2.9)	66.4(2.5)	68.4(2.7)	54.2(6.7)	61.0(6.8)
	1984	62.4(1.4)	61.4(1.9)	63.3(1.5)	64.3(1.6)	53.5(4.1)	49.4(7.5)
Best title for Scott story	1994	43.2(2.3)	40.2(3.0)	46.6(3.1)	44.8(2.4)	41.0(8.8)	28.0(6.0)
	1992	45.5(1.9)	45.3(2.4)	45.7(3.5)	47.8(2.3)	38.8(4.2)	39.1(4.4)
	1990	42.5(2.1)	40.8(3.4)	44.1(3.1)	43.8(2.4)	37.5(6.3)	39.5(4.9)
	1988	47.2(2.1)	43.3(2.8)	51.0(3.4)	48.7(2.5)	40.4(5.2)	37.1(8.8)
	1984	41.5(1.2)	38.7(1.9)	44.4(1.4)	42.0(1.2)	39.8(3.8)	41.6(4.4)
Scott story fact	1994	69.7(1.9)	70.1(2.7)	69.2(2.9)	69.0(2.3)	72.0(4.4)	71.6(6.7)
	1992	71.1(1.8)	66.2(2.8)	76.6(2.4)	71.5(2.2)	74.5(4.2)	66.8(7.0)
	1990	70.6(1.7)	65.4(3.1)	75.6(2.3)	70.6(2.0)	74.4(4.9)	68.9(6.9)
	1988	70.8(2.0)	67.6(3.0)	74.0(2.9)	69.0(2.5)	73.6(3.7)	80.6(5.1)
	1984	71.1(1.3)	68.9(1.8)	73.4(1.5)	70.3(1.5)	74.6(2.5)	69.9(4.8)
Scott story definition	1994	29.8(2.1)	29.6(2.9)	30.1(2.9)	30.5(2.4)	26.1(4.4)	24.2(4.5)
	1992	27.7(1.8)	25.2(2.3)	30.4(2.4)	28.3(1.7)	24.0(6.2)	29.1(7.6)
	1990	32.3(1.9)	33.0(3.1)	31.7(2.5)	33.8(2.2)	26.5(4.5)	26.8(5.6)
	1988	28.5(2.0)	27.7(2.0)	29.3(3.2)	28.8(1.8)	25.8(4.9)	28.1(XXX)
	1984	28.2(1.2)	27.6(1.7)	28.8(1.6)	29.8(1.4)	25.3(2.5)	21.5(3.7)
Figure name	1994	89.3(1.3)	90.5(1.7)	87.9(1.8)	93.0(1.3)	72.6(5.5)	86.0(4.7)
	1992	87.1(1.9)	87.1(2.1)	87.2(2.5)	89.5(1.8)	79.4(6.0)	84.5(4.0)
	1990	85.7(1.5)	88.7(1.7)	82.8(2.7)	88.0(1.7)	78.9(3.7)	78.8(7.0)
	1988	86.6(1.3)	86.2(2.3)	87.0(2.1)	88.0(1.8)	81.8(2.8)	79.6(7.5)
	1984	81.6(1.1)	81.3(1.4)	81.8(1.3)	84.7(1.1)	68.9(3.2)	73.6(6.9)
Description of person	1994	97.2(0.7)	95.6(1.3)	99.1(0.5)	97.8(0.7)	96.2(2.4)	97.6(1.8)
	1992	97.4(0.8)	95.3(1.5)	99.6(0.3)	98.7(0.6)	97.0(2.4)	85.8(4.5)
	1990	95.9(0.9)	95.8(1.2)	95.9(1.1)	96.4(1.0)	95.8(2.0)	88.6(6.1)
	1988	96.3(0.9)	93.9(1.7)	98.7(0.6)	96.4(1.0)	98.6(1.0)	86.2(4.9)
	1984	97.2(0.4)	96.1(0.5)	98.4(0.6)	98.2(0.3)	94.3(1.6)	93.1(3.2)
Nonsense word 1	1994	90.0(1.3)	89.0(2.1)	91.2(1.7)	93.6(1.6)	73.1(5.9)	84.1(5.3)
	1992	89.4(1.3)	85.9(2.0)	93.3(1.5)	92.3(1.2)	86.5(3.3)	71.7(7.2)
	1990	88.5(1.4)	85.6(2.3)	91.4(1.4)	91.1(1.6)	78.1(3.7)	82.6(6.1)
	1988	88.6(1.5)	87.0(1.8)	90.1(2.0)	90.9(1.5)	83.0(5.9)	73.6(6.2)
	1984	87.8(0.8)	86.4(1.1)	89.3(1.2)	90.4(0.7)	79.4(2.4)	77.5(4.3)
Fact about pet care	1994	62.3(2.3)	58.3(3.0)	66.9(3.5)	69.3(2.2)	42.0(6.9)	***(***)
	1992	61.7(2.4)	60.6(3.7)	62.8(2.7)	67.8(2.3)	44.6(6.6)	43.7(7.8)
	1990	63.5(2.0)	58.7(2.7)	68.2(3.0)	68.0(2.2)	45.9(5.7)	61.0(XXX)
	1988	61.9(1.8)	52.1(2.7)	71.4(2.6)	66.9(2.0)	42.8(6.5)	48.5(7.6)
	1984	60.2(1.1)	54.8(1.3)	66.0(1.5)	67.0(1.1)	38.3(2.6)	39.2(4.8)
Fact about health of pet	1994	66.9(2.5)	65.1(3.0)	69.0(2.9)	70.8(3.2)	56.1(5.1)	***(***)
	1992	64.8(2.0)	62.8(3.4)	67.1(2.9)	68.5(2.0)	52.1(7.3)	53.2(5.4)
	1990	62.2(1.7)	58.3(2.6)	66.0(2.4)	64.9(1.9)	56.9(5.0)	47.7(XXX)
	1988	61.3(2.2)	58.9(3.6)	63.7(2.7)	66.9(2.3)	37.5(8.1)	54.2(XXX)
	1984	64.9(1.1)	63.3(1.6)	66.6(1.7)	71.4(1.2)	41.9(2.3)	43.4(5.0)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Sport: Main reason	1994	54.2(1.7)	50.4(2.5)	58.6(2.7)	57.2(2.0)	43.6(6.1)	***(***)
	1992	60.5(2.3)	60.4(2.8)	60.5(3.0)	64.0(2.6)	49.9(5.1)	46.9(5.0)
	1990	59.1(1.8)	57.2(2.6)	61.0(2.6)	63.1(2.1)	45.9(5.4)	36.5(7.7)
	1988	64.0(1.9)	58.6(2.5)	69.4(2.3)	66.2(2.1)	49.1(3.2)	68.3(8.6)
	1984	56.1(1.4)	53.0(1.8)	59.3(1.8)	61.9(1.4)	33.3(2.9)	40.9(4.9)
Trip length in James biography	1994	95.7(0.8)	93.2(1.7)	98.4(0.8)	96.7(0.9)	92.4(4.2)	***(***)
	1992	96.8(0.8)	95.5(1.0)	98.1(1.1)	97.8(0.5)	93.0(2.9)	98.9(1.0)
	1990	96.4(0.7)	94.9(1.4)	97.8(0.7)	96.7(0.8)	96.2(2.2)	94.9(3.7)
	1988	96.7(0.9)	95.6(1.3)	97.8(1.1)	97.2(1.0)	93.0(3.3)	96.8(2.9)
	1984	98.5(0.2)	98.0(0.4)	99.0(0.4)	98.8(0.2)	97.1(1.0)	98.1(1.2)
Importance of James's trip	1994	65.0(1.8)	61.6(2.5)	68.9(2.6)	68.4(1.8)	57.1(7.4)	***(***)
	1992	63.4(2.3)	60.5(3.2)	66.2(2.5)	68.3(2.7)	49.1(6.5)	37.4(5.1)
	1990	62.8(1.8)	62.2(2.3)	63.4(2.7)	67.7(1.9)	54.3(7.1)	44.8(6.6)
	1988	63.7(1.4)	64.4(2.3)	63.0(2.6)	66.5(1.9)	51.6(4.9)	43.0(7.7)
	1984	67.1(1.5)	68.1(2.1)	66.0(2.0)	71.3(1.4)	50.3(4.8)	52.7(5.4)
Hardships endured by James	1994	91.8(1.1)	88.2(1.9)	95.7(1.0)	94.2(1.2)	82.6(4.2)	***(***)
	1992	91.6(1.5)	89.1(2.4)	94.0(1.6)	93.7(1.5)	80.0(6.7)	88.5(5.2)
	1990	92.7(1.0)	91.1(1.5)	94.4(1.4)	93.4(1.2)	92.1(2.9)	90.0(4.1)
	1988	93.4(1.0)	90.5(1.7)	96.1(1.0)	93.7(1.2)	92.9(2.4)	87.2(5.5)
	1984	95.5(0.6)	94.1(0.8)	97.0(0.7)	96.3(0.5)	92.6(1.8)	91.3(4.1)
Phone document for New York	1994	57.0(2.1)	56.0(2.8)	58.1(2.4)	57.9(2.0)	54.6(5.7)	***(***)
	1992	55.9(2.2)	52.9(3.1)	58.8(3.4)	60.9(3.0)	36.6(5.1)	33.3(5.7)
	1990	53.4(2.0)	54.4(2.9)	52.3(2.7)	57.5(2.0)	41.4(5.9)	35.5(6.1)
	1988	51.0(2.5)	49.4(3.2)	52.5(3.0)	53.1(2.6)	47.7(8.7)	37.0(XXX)
	1984	52.6(1.3)	52.7(2.0)	52.5(1.7)	55.0(1.4)	41.3(3.5)	49.9(4.5)
Phone document for Syracuse	1994	73.7(1.5)	69.1(2.1)	78.8(2.1)	76.1(1.6)	66.7(4.3)	***(***)
	1992	75.1(1.8)	72.2(2.7)	78.0(2.8)	77.1(2.3)	67.1(6.2)	62.9(6.9)
	1990	76.5(1.8)	72.2(2.7)	80.8(2.3)	80.3(1.8)	65.3(5.6)	65.6(5.5)
	1988	74.9(1.5)	67.2(2.8)	82.1(1.9)	76.2(1.9)	73.5(4.7)	53.5(XXX)
	1984	74.2(1.0)	73.3(1.8)	75.2(1.2)	77.1(1.2)	63.0(2.7)	66.5(3.2)
Tiresome jobs – 1900's	1994	53.6(2.2)	50.5(3.2)	56.9(3.3)	56.6(2.5)	40.1(4.5)	***(***)
	1992	53.9(2.1)	50.3(3.3)	57.4(2.3)	57.0(2.4)	33.8(5.2)	54.2(7.2)
	1990	53.4(1.9)	48.6(2.8)	58.2(2.3)	59.0(1.9)	40.7(6.1)	39.6(5.4)
	1988	57.1(2.0)	52.4(3.0)	61.5(3.1)	59.5(2.2)	42.8(6.0)	51.2(XXX)
	1984	58.0(1.6)	55.5(1.8)	60.5(2.4)	60.6(1.6)	44.8(4.1)	49.9(8.1)
Jobs in the woods – 1900's	1994	66.6(2.6)	63.5(3.0)	69.9(3.1)	71.6(2.7)	51.3(5.3)	***(***)
	1992	62.3(2.1)	58.5(3.4)	66.0(2.1)	66.1(2.6)	50.9(5.7)	36.9(6.2)
	1990	61.1(2.2)	56.1(2.6)	65.9(3.4)	66.2(2.5)	48.8(4.8)	48.5(6.9)
	1988	64.4(2.2)	59.3(2.8)	69.1(2.7)	69.0(2.2)	41.1(4.4)	51.8(XXX)
	1984	68.7(1.4)	64.0(2.1)	73.6(2.0)	72.4(1.5)	51.3(2.8)	63.8(6.9)
Home jobs – 1900's	1994	74.2(2.0)	67.3(2.9)	81.6(2.3)	77.9(2.5)	59.9(4.6)	***(***)
	1992	77.2(2.1)	67.7(3.5)	86.5(2.3)	81.0(1.8)	62.5(5.1)	59.4(9.9)
	1990	75.1(1.5)	67.3(3.0)	82.8(2.2)	79.2(1.7)	73.2(4.0)	54.4(6.4)
	1988	78.5(1.6)	70.6(2.4)	86.0(2.2)	79.9(1.7)	73.9(5.0)	61.4(8.2)
	1984	81.8(1.1)	77.2(1.6)	86.7(1.2)	84.5(1.2)	68.2(3.9)	77.3(4.5)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Advertisement for carrier	1994	79.2(2.0)	70.3(3.3)	88.8(1.9)	82.6(1.9)	65.3(7.0)	73.2(6.8)
	1992	81.8(1.5)	75.4(2.4)	88.5(2.0)	87.3(1.3)	62.9(5.3)	71.4(5.0)
	1990	82.9(1.4)	79.0(2.3)	87.5(1.7)	86.0(1.5)	72.8(4.8)	77.5(4.1)
	1988	83.0(2.1)	80.0(3.1)	86.2(2.3)	84.6(2.0)	75.9(5.6)	81.8(6.2)
	1984	78.6(1.2)	76.4(1.8)	80.8(1.6)	82.2(1.1)	60.5(3.3)	69.5(6.7)
Carrier job requirements	1994	81.5(1.8)	78.7(2.2)	84.3(2.6)	84.6(2.2)	71.5(5.1)	72.9(6.3)
	1992	84.6(1.5)	83.5(2.0)	85.9(2.0)	86.8(1.6)	80.8(4.4)	71.9(5.3)
	1990	80.2(1.7)	78.9(2.7)	81.8(2.4)	84.5(1.9)	65.9(5.4)	69.4(5.6)
	1988	83.4(1.7)	83.3(2.2)	83.5(2.3)	86.9(1.6)	69.6(6.4)	72.4(7.4)
	1984	82.2(1.0)	80.6(1.7)	83.8(1.4)	84.6(1.1)	72.4(2.7)	71.8(3.3)
Carrier job responsibilities	1994	82.0(1.5)	76.7(2.1)	87.6(2.1)	83.9(1.6)	68.8(4.5)	83.7(5.3)
	1992	85.8(1.8)	83.3(2.5)	88.5(2.5)	87.7(1.7)	82.0(4.7)	80.8(6.1)
	1990	79.5(1.4)	75.0(2.2)	84.9(2.1)	82.2(1.5)	71.0(5.2)	70.7(4.7)
	1988	83.0(1.8)	79.5(2.3)	86.8(2.2)	84.8(1.9)	76.5(5.5)	79.5(XXX)
	1984	78.5(0.9)	76.0(1.2)	81.0(1.1)	81.2(0.9)	66.5(2.9)	68.9(4.4)
Silky story fact	1994	88.5(1.7)	83.6(2.4)	93.7(1.5)	90.1(1.7)	80.4(4.5)	86.3(6.0)
	1992	87.9(1.5)	84.1(2.5)	91.9(1.8)	89.9(1.5)	79.6(5.5)	89.2(4.5)
	1990	86.9(1.3)	82.1(2.0)	92.6(1.6)	89.2(1.1)	77.1(6.3)	84.3(3.6)
	1988	91.4(1.3)	88.7(1.8)	94.3(1.4)	92.2(1.4)	84.7(4.0)	91.6(3.8)
	1984	89.8(0.9)	86.1(1.4)	93.5(0.9)	91.3(1.0)	84.0(1.9)	83.4(3.9)
History of gold rush fact	1994	57.4(2.4)	50.0(3.6)	65.5(2.5)	61.5(2.4)	49.2(6.3)	35.8(6.7)
	1992	68.4(1.8)	62.8(2.5)	74.3(2.3)	71.5(1.8)	58.2(5.6)	56.2(5.8)
	1990	58.6(2.2)	51.7(3.0)	66.7(2.8)	61.4(2.8)	53.0(5.7)	47.5(6.6)
	1988	63.4(2.0)	57.4(3.1)	69.7(2.5)	68.1(2.2)	55.5(4.7)	40.0(XXX)
	1984	50.6(1.4)	47.2(1.7)	54.1(1.6)	53.5(1.6)	36.9(2.7)	42.8(7.1)
Winnie drawing	1994	92.2(1.5)	88.9(2.8)	95.7(1.0)	93.4(1.6)	84.5(3.6)	91.3(4.6)
	1992	93.3(1.2)	93.4(1.7)	93.2(1.4)	93.8(1.5)	90.0(3.9)	95.3(2.8)
	1990	94.1(0.8)	93.3(1.4)	95.0(1.0)	94.6(1.0)	92.7(2.6)	89.9(3.1)
	1988	95.7(0.9)	95.1(1.0)	96.3(1.2)	94.5(1.2)	98.3(1.7)	100.0(0.0)
	1984	93.3(0.5)	92.0(0.6)	94.7(0.8)	94.4(0.5)	87.7(2.1)	91.7(2.4)
History of arts before 1940	1994	20.8(1.7)	21.1(2.3)	20.6(2.3)	20.9(1.9)	19.0(4.6)	19.8(5.1)
	1992	22.8(1.9)	24.2(2.7)	21.3(2.2)	23.7(2.2)	23.1(4.5)	18.1(5.0)
	1990	23.6(1.9)	26.0(2.9)	20.7(2.3)	24.2(2.3)	22.4(4.4)	19.5(6.1)
	1988	23.8(1.6)	24.4(2.6)	23.2(2.2)	25.2(2.0)	25.6(3.2)	12.5(5.6)
	1984	22.1(1.0)	22.6(1.8)	21.7(1.3)	23.4(1.2)	16.3(1.9)	15.5(2.6)
Historical privilege of arts	1994	36.4(2.0)	36.8(2.1)	35.6(3.1)	38.2(2.3)	29.2(5.9)	33.0(5.3)
	1992	42.0(2.1)	43.0(2.9)	41.0(3.1)	42.8(2.3)	41.8(7.6)	28.1(5.6)
	1990	34.4(1.4)	33.8(2.7)	35.1(2.4)	35.7(1.8)	26.1(3.9)	34.7(5.5)
	1988	36.7(2.3)	36.1(2.7)	37.4(3.6)	39.1(3.0)	32.9(5.4)	18.5(5.8)
	1984	35.2(1.1)	35.7(1.7)	34.8(1.6)	37.9(1.3)	24.5(2.9)	24.3(3.8)
Mass production of art	1994	20.6(1.3)	19.0(2.4)	22.4(2.2)	22.2(1.8)	16.2(4.8)	7.3(3.3)
	1992	20.3(1.4)	17.3(1.6)	23.4(2.1)	21.5(1.6)	13.6(3.1)	23.8(6.3)
	1990	19.8(1.5)	19.8(2.3)	19.8(2.0)	19.9(1.6)	18.3(4.3)	22.7(5.2)
	1988	22.2(2.1)	20.9(2.8)	23.5(2.5)	22.5(2.7)	17.7(3.1)	22.4(4.8)
	1984	21.5(1.1)	19.0(1.7)	23.9(1.3)	21.5(1.3)	23.8(2.5)	16.7(2.9)

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Traffic violation fact	1994	61.6(2.5)	61.3(3.4)	62.0(2.8)	63.9(2.7)	53.1(7.0)	***(***)
	1992	67.5(1.7)	70.6(2.7)	64.2(2.5)	67.2(2.1)	67.6(5.5)	66.0(6.6)
	1990	64.7(1.8)	65.5(2.5)	63.6(2.6)	66.0(2.0)	61.5(5.5)	65.8(5.5)
	1988	67.1(2.4)	67.6(2.8)	66.6(3.9)	67.9(2.8)	60.8(4.0)	73.0(7.5)
	1984	62.8(1.3)	60.0(2.1)	65.4(1.8)	64.8(1.3)	52.2(4.0)	55.5(6.1)
Cost of traffic fine	1994	57.7(2.0)	56.9(2.9)	58.6(2.8)	63.9(2.1)	40.8(4.0)	***(***)
	1992	54.5(1.8)	54.9(2.7)	54.2(2.7)	60.0(2.1)	36.2(6.6)	38.5(6.5)
	1990	50.3(2.0)	51.1(2.6)	49.5(2.9)	53.7(2.2)	45.1(5.3)	34.3(6.5)
	1988	46.8(2.2)	47.2(3.0)	46.4(2.5)	51.2(2.4)	29.0(5.3)	43.7(XXX)
	1984	49.7(1.1)	51.4(1.6)	48.0(1.5)	53.3(1.3)	37.5(3.1)	30.6(3.3)
Traffic fine payment fact	1994	35.6(2.4)	38.5(2.8)	32.5(3.0)	38.8(2.4)	25.4(4.8)	***(***)
	1992	33.2(2.2)	30.5(2.9)	36.0(2.9)	33.7(2.5)	37.1(5.0)	21.4(5.5)
	1990	32.6(1.7)	31.7(2.4)	33.5(2.9)	34.5(2.0)	24.7(5.4)	30.5(5.1)
	1988	32.8(2.0)	31.4(3.3)	34.3(2.4)	35.7(2.2)	14.8(5.6)	21.9(6.1)
	1984	31.8(1.2)	33.0(1.4)	30.6(1.7)	33.2(1.1)	22.8(2.6)	35.1(3.2)
Seal food information	1994	62.8(2.8)	57.6(2.9)	68.7(3.4)	66.3(3.0)	50.5(8.3)	***(***)
	1992	63.4(2.9)	63.2(4.0)	63.7(3.1)	66.7(3.1)	53.6(7.5)	51.5(6.9)
	1990	59.3(2.1)	56.3(3.0)	62.8(3.2)	63.8(2.2)	41.3(7.1)	47.8(8.2)
	1988	67.2(2.1)	69.4(2.5)	65.1(3.2)	69.6(2.5)	55.7(6.2)	65.8(8.7)
	1984	64.0(1.4)	64.8(1.9)	63.3(1.7)	67.8(1.5)	45.7(2.5)	44.0(5.2)
Fact about seals in Mexico	1994	38.7(2.8)	34.0(3.5)	44.2(3.6)	43.5(3.2)	22.5(5.7)	***(***)
	1992	47.8(2.5)	42.9(3.7)	53.0(3.0)	51.4(2.9)	32.9(4.1)	40.4(4.9)
	1990	40.8(1.9)	36.7(2.5)	45.7(2.5)	44.6(2.1)	26.8(5.9)	25.8(5.8)
	1988	46.1(2.1)	40.8(3.4)	51.4(3.0)	51.9(2.6)	26.7(5.3)	19.6(9.7)
	1984	45.3(1.3)	40.6(2.0)	49.8(1.5)	48.3(1.6)	29.0(3.3)	29.5(3.8)
Describe seals	1994	43.9(2.6)	39.5(3.0)	49.0(3.4)	44.0(2.9)	43.2(8.6)	***(***)
	1992	45.5(2.3)	43.6(3.3)	47.6(3.2)	47.3(2.7)	36.6(5.8)	43.0(4.6)
	1990	46.4(2.1)	44.1(3.0)	49.1(3.0)	50.3(2.7)	32.1(5.9)	36.5(5.4)
	1988	43.6(2.0)	41.4(3.0)	45.7(2.8)	47.3(2.5)	31.2(4.4)	28.7(8.5)
	1984	45.1(1.5)	41.8(1.9)	48.2(2.1)	46.1(1.6)	39.5(3.6)	40.1(6.9)
Birth cycle of seals	1994	52.7(3.0)	46.0(3.4)	60.6(3.3)	57.5(3.5)	36.5(4.8)	***(***)
	1992	59.4(2.9)	55.8(4.5)	63.4(3.1)	65.5(3.5)	32.5(5.7)	41.1(7.7)
	1990	52.2(1.8)	46.0(2.3)	59.4(3.1)	54.6(2.3)	42.6(4.8)	37.5(7.3)
	1988	62.6(1.7)	58.0(2.9)	67.1(2.8)	67.5(2.2)	42.0(4.9)	49.3(XXX)
	1984	60.9(1.4)	57.8(2.1)	63.9(1.4)	64.7(1.7)	38.9(3.5)	43.1(5.8)
Seals: Definition	1994	78.2(2.5)	73.1(3.6)	84.4(2.6)	81.2(2.9)	69.4(4.0)	***(***)
	1992	77.6(2.0)	74.3(2.8)	81.1(2.7)	80.6(2.1)	64.9(7.2)	67.9(5.9)
	1990	77.6(2.0)	71.9(2.8)	84.4(2.0)	80.2(1.9)	72.6(6.1)	58.0(7.5)
	1988	80.0(2.0)	77.8(3.0)	82.2(2.9)	82.9(2.0)	68.7(7.5)	65.2(XXX)
	1984	79.9(1.2)	77.9(1.4)	81.8(1.7)	83.0(1.2)	63.5(3.2)	63.3(5.0)
Hero story: Main idea	1994	80.0(1.9)	76.0(2.9)	84.1(2.1)	80.8(2.2)	75.7(5.9)	***(***)
	1992	79.6(2.5)	79.6(3.3)	79.5(3.1)	81.5(2.9)	72.1(5.1)	74.5(7.1)
	1990	76.5(1.7)	74.3(2.4)	78.7(2.5)	78.6(2.1)	70.2(6.5)	69.7(9.7)
	1988	79.3(1.8)	78.4(2.5)	80.2(2.3)	80.9(2.4)	71.1(4.5)	75.2(6.2)
	1984	75.0(0.8)	74.7(1.1)	75.3(1.3)	76.6(0.8)	67.7(2.9)	69.2(3.5)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Country of hero in story	1994	89.2(1.4)	85.9(2.1)	92.6(1.8)	89.6(1.6)	84.2(3.1)	***(***)
	1992	92.8(0.9)	89.3(1.9)	96.0(1.1)	92.4(1.2)	91.5(2.7)	98.8(1.3)
	1990	90.1(1.2)	86.3(1.5)	93.9(1.3)	90.2(1.4)	92.8(4.0)	89.8(4.3)
	1988	88.3(1.4)	84.4(2.0)	92.1(1.9)	88.2(1.7)	87.3(3.7)	92.2(6.5)
	1984	89.6(0.6)	86.5(0.7)	92.9(0.8)	90.7(0.6)	85.4(2.1)	85.0(3.1)
Hero story: Fact	1994	64.0(2.0)	62.3(2.9)	65.7(2.4)	67.8(2.3)	55.0(6.4)	***(***)
	1992	60.3(2.0)	58.0(3.2)	62.4(2.7)	64.2(2.3)	44.6(4.7)	51.9(7.3)
	1990	59.3(1.8)	58.7(2.7)	60.0(2.6)	61.6(2.4)	47.1(5.4)	60.6(5.9)
	1988	58.4(1.9)	59.9(2.1)	56.9(3.2)	61.1(2.3)	47.2(5.3)	43.4(8.7)
	1984	59.0(1.2)	59.6(1.6)	58.3(1.5)	62.4(1.4)	44.7(2.5)	48.5(4.8)
Money in hero story	1994	69.0(2.5)	62.3(3.6)	75.8(2.3)	73.2(2.5)	50.8(6.0)	***(***)
	1992	73.3(2.1)	67.3(2.6)	79.0(2.8)	75.1(2.6)	65.3(5.4)	81.3(5.9)
	1990	70.2(1.5)	64.4(2.6)	76.0(2.6)	72.2(1.9)	61.5(5.2)	67.7(4.4)
	1988	69.1(2.1)	64.0(2.9)	74.1(3.1)	70.1(2.1)	64.1(5.4)	65.3(9.0)
	1984	73.3(1.0)	69.0(1.5)	77.9(1.3)	74.9(1.1)	66.9(2.1)	69.7(3.5)
Hero story: Goal	1994	74.9(2.5)	67.5(3.5)	82.5(2.6)	79.1(2.7)	54.0(5.9)	***(***)
	1992	77.2(2.0)	73.9(3.3)	80.2(2.4)	79.6(2.5)	68.6(4.3)	71.3(6.4)
	1990	78.6(1.5)	74.3(2.0)	82.9(2.2)	80.6(1.9)	75.0(4.8)	67.6(4.9)
	1988	77.4(1.7)	74.4(2.5)	80.3(1.6)	78.3(2.1)	71.4(5.0)	77.2(8.0)
	1984	75.2(0.8)	73.2(1.6)	77.4(1.2)	77.0(0.9)	64.6(2.8)	73.6(2.8)
Purpose of business article	1994	59.9(2.0)	54.7(3.5)	65.2(3.3)	63.6(2.3)	52.3(5.1)	***(***)
	1992	59.9(1.7)	54.7(3.0)	64.8(2.7)	62.4(1.9)	52.4(5.1)	54.9(8.2)
	1990	58.6(1.6)	55.9(2.2)	61.2(2.3)	60.0(1.9)	52.9(6.3)	53.4(6.5)
	1988	59.4(2.1)	55.7(2.5)	62.9(3.3)	62.5(2.5)	45.7(5.5)	51.1(9.4)
	1984	55.5(1.1)	52.5(1.4)	58.6(1.1)	58.3(1.1)	46.8(3.3)	43.5(3.5)
Identify business liability	1994	35.4(1.9)	31.3(2.4)	39.7(3.1)	38.8(2.3)	25.7(4.3)	***(***)
	1992	36.5(2.0)	37.5(3.1)	35.5(2.3)	39.4(2.3)	23.5(4.4)	37.5(8.0)
	1990	35.2(1.8)	31.7(2.4)	38.7(2.5)	37.6(2.0)	29.6(6.1)	23.8(6.5)
	1988	38.5(1.9)	41.8(2.7)	35.4(2.8)	40.7(2.0)	32.2(5.4)	24.2(XXX)
	1984	35.7(0.9)	36.0(1.1)	35.3(1.5)	38.1(1.0)	25.8(2.7)	29.2(2.4)
Define business profit	1994	82.2(2.1)	80.9(2.5)	83.5(2.8)	85.5(2.3)	73.2(4.7)	***(***)
	1992	84.8(1.6)	87.1(2.4)	82.7(2.5)	88.0(1.4)	74.6(5.7)	79.6(6.4)
	1990	83.6(1.6)	83.6(2.6)	83.5(1.8)	87.4(1.5)	77.3(6.1)	60.0(5.7)
	1988	84.6(1.8)	85.6(2.5)	83.7(2.6)	87.4(2.0)	77.5(4.2)	63.1(XXX)
	1984	85.7(0.6)	85.9(0.9)	85.5(0.9)	88.1(0.7)	76.7(2.3)	75.0(2.4)
One purpose of trees	1994	79.6(1.8)	76.4(2.7)	82.9(1.8)	85.6(1.9)	57.3(5.8)	***(***)
	1992	80.5(1.7)	78.8(2.7)	82.1(2.0)	83.6(1.8)	70.0(5.8)	70.0(5.4)
	1990	79.1(1.6)	76.1(1.8)	82.0(2.0)	82.6(1.7)	67.5(6.1)	64.7(9.5)
	1988	80.7(1.9)	80.5(2.4)	80.9(2.7)	82.9(2.1)	67.8(5.8)	79.5(8.3)
	1984	81.9(0.8)	81.3(1.3)	82.4(0.9)	84.4(0.9)	70.9(2.5)	75.4(2.0)
Second purpose of trees	1994	50.0(2.2)	47.1(3.2)	52.9(3.1)	54.8(2.4)	30.9(5.6)	***(***)
	1992	46.8(1.9)	48.9(2.5)	44.8(2.9)	54.4(2.7)	26.2(4.4)	22.3(7.0)
	1990	46.3(2.2)	46.9(2.7)	45.7(3.4)	51.7(2.6)	30.2(5.7)	21.8(5.7)
	1988	53.6(2.6)	53.9(3.6)	53.3(2.8)	57.3(2.9)	35.4(5.0)	41.2(8.9)
	1984	52.1(1.2)	51.9(1.6)	52.2(1.3)	56.3(1.4)	36.6(2.5)	34.9(3.8)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 13

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Purpose of green belt	1994	76.3(2.3)	74.9(3.3)	77.7(2.7)	80.5(2.4)	62.0(6.3)	***(***)
	1992	75.5(2.2)	73.8(2.8)	77.0(2.9)	79.4(2.1)	61.9(6.2)	70.4(6.9)
	1990	73.9(1.6)	75.4(2.6)	72.4(2.0)	76.2(1.9)	68.4(5.1)	61.2(8.2)
	1988	78.3(1.8)	77.1(2.7)	79.4(2.8)	81.0(1.7)	60.7(8.6)	76.4(8.1)
	1984	72.7(1.0)	70.9(1.2)	74.6(1.5)	76.5(1.0)	56.6(2.8)	59.8(3.4)

*** Sample size insufficient to permit a reliable estimate.
The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 17

Weighted percentage correct by subgroups across assessment years

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Computer chip: Central purpose	1994	67.3(2.2)	66.6(2.7)	67.8(3.4)	72.3(2.6)	49.9(6.6)	***(***)
	1992	71.8(1.7)	67.2(2.6)	75.9(1.8)	75.2(2.1)	53.9(4.9)	64.7(6.2)
	1990	71.0(2.2)	69.4(3.2)	72.7(2.5)	74.5(2.2)	55.7(4.7)	71.1(8.1)
	1988	72.5(1.6)	74.0(2.5)	71.1(2.6)	76.5(1.7)	57.7(4.7)	65.2(6.2)
	1984	68.3(1.5)	67.2(1.3)	69.4(2.1)	72.5(1.3)	51.5(4.2)	53.3(4.7)
Computer chip: Supporting idea	1994	48.7(2.9)	46.8(4.3)	50.6(3.7)	52.4(3.2)	36.1(6.1)	***(***)
	1992	48.3(2.3)	46.9(3.0)	49.5(2.7)	50.8(2.8)	29.7(5.0)	52.9(7.7)
	1990	52.1(2.0)	52.7(3.4)	51.6(2.2)	54.8(2.6)	40.1(4.5)	51.2(XXX)
	1988	50.4(2.3)	47.6(3.4)	53.0(3.2)	52.3(2.6)	49.3(5.6)	32.5(6.2)
	1984	47.5(0.8)	44.2(1.5)	51.0(1.5)	51.5(1.0)	30.3(2.4)	33.1(4.6)
Computer chip: Vocabulary	1994	30.6(2.3)	34.9(3.3)	26.3(2.5)	31.7(2.7)	30.2(5.3)	***(***)
	1992	26.1(1.7)	25.7(2.3)	26.4(2.3)	26.5(2.1)	26.9(5.8)	26.1(6.9)
	1990	29.1(1.8)	29.9(2.6)	28.2(2.6)	29.6(2.2)	22.2(5.1)	40.6(7.5)
	1988	26.1(2.3)	27.6(2.7)	24.9(2.9)	25.7(2.3)	27.7(6.0)	24.7(6.3)
	1984	28.2(1.0)	29.1(1.4)	27.3(1.6)	29.4(1.1)	21.9(2.5)	27.6(3.2)
Coupon document: Limitations	1994	80.2(1.6)	76.3(2.3)	84.0(2.4)	85.0(1.6)	66.0(6.4)	***(***)
	1992	77.7(2.2)	76.2(2.6)	79.1(2.6)	80.3(1.9)	66.7(5.9)	77.6(6.7)
	1990	77.5(2.2)	71.4(3.2)	83.8(2.4)	80.4(2.5)	65.2(6.0)	74.2(XXX)
	1988	81.2(1.3)	76.3(2.5)	85.2(1.8)	83.3(1.8)	71.5(5.1)	78.1(7.7)
	1984	73.7(1.1)	69.3(1.8)	78.2(1.2)	77.8(1.2)	60.5(3.0)	52.8(4.1)
Coupon document: Expiration	1994	96.0(0.9)	94.2(1.7)	97.8(0.8)	95.5(1.2)	97.7(1.7)	***(***)
	1992	96.2(0.8)	97.2(0.8)	95.3(1.1)	96.2(0.8)	97.5(1.8)	91.6(4.0)
	1990	96.6(0.8)	94.6(1.4)	98.7(0.6)	96.3(0.9)	98.1(0.9)	95.3(3.1)
	1988	97.5(0.6)	96.5(1.2)	98.3(0.6)	97.5(0.8)	96.0(1.5)	100.0(0.0)
	1984	95.3(0.5)	94.0(0.7)	96.6(0.8)	96.4(0.4)	91.8(1.2)	90.5(3.5)
Coupon: Value	1994	70.2(2.5)	68.8(3.0)	71.5(3.3)	75.1(2.9)	52.4(6.6)	***(***)
	1992	69.5(1.9)	65.8(2.8)	72.8(2.6)	74.1(2.3)	37.7(5.8)	76.9(7.0)
	1990	70.8(2.0)	69.9(2.4)	71.7(3.1)	74.9(2.0)	54.4(5.7)	66.5(XXX)
	1988	71.3(2.3)	73.0(3.9)	69.7(2.8)	72.8(2.6)	68.7(4.4)	67.3(8.3)
	1984	74.1(1.3)	72.2(1.6)	76.0(1.8)	79.3(1.2)	52.9(3.4)	55.1(5.7)
Carad poem	1994	79.3(1.6)	76.9(2.9)	81.6(2.0)	81.7(1.9)	75.6(6.0)	***(***)
	1992	77.2(2.1)	73.0(3.2)	81.0(2.4)	81.1(2.1)	54.9(5.5)	73.3(7.2)
	1990	78.7(1.8)	75.8(2.5)	81.8(2.2)	81.1(1.8)	69.7(5.2)	76.8(9.7)
	1988	78.5(1.7)	78.4(2.8)	78.4(2.6)	82.1(2.1)	69.0(4.7)	51.3(7.9)
	1984	77.6(0.9)	75.8(1.4)	79.6(1.1)	82.2(0.9)	58.9(3.3)	65.5(5.4)
Nut story: Plan	1994	95.6(1.0)	92.5(1.9)	98.5(0.7)	95.1(1.4)	97.4(2.3)	***(***)
	1992	95.7(0.9)	93.4(1.4)	97.8(1.0)	96.2(1.0)	94.5(2.7)	90.3(5.6)
	1990	96.5(0.7)	94.2(1.3)	98.8(0.6)	96.1(0.9)	97.4(1.6)	97.3(2.7)
	1988	97.4(0.8)	94.9(1.6)	99.5(0.4)	96.9(1.0)	98.4(1.7)	100.0(0.0)
	1984	96.4(0.5)	94.6(0.7)	98.3(0.6)	97.1(0.4)	95.5(1.0)	91.3(4.0)
Nut story: Problem	1994	87.9(1.6)	85.2(2.5)	90.7(1.7)	88.7(2.1)	84.9(5.0)	***(***)
	1992	87.8(1.6)	84.5(2.9)	90.7(1.7)	89.5(1.9)	80.2(4.4)	80.7(5.2)
	1990	87.8(1.2)	81.2(2.2)	94.6(1.4)	87.3(1.3)	85.6(3.4)	95.3(3.0)
	1988	91.6(1.2)	87.8(2.5)	94.7(1.2)	91.8(1.5)	92.7(2.4)	87.3(7.7)
	1984	88.8(0.8)	85.9(0.9)	91.8(1.3)	90.8(0.8)	79.5(3.2)	83.7(3.9)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Nut story: Goal	1994	91.2(1.2)	88.0(1.8)	94.5(1.7)	90.7(1.5)	92.8(2.9)	***(***)
	1992	91.7(1.0)	89.1(1.6)	94.1(1.5)	92.9(1.2)	85.4(3.5)	88.4(6.3)
	1990	90.7(1.3)	86.5(2.2)	95.0(1.2)	91.0(1.4)	89.0(3.1)	92.9(4.6)
	1988	93.9(1.2)	92.5(1.7)	95.1(1.7)	94.9(1.4)	91.2(2.7)	92.2(3.4)
	1984	91.9(0.7)	89.5(1.0)	94.5(0.8)	93.6(0.6)	85.4(2.1)	86.5(3.7)
Nut story: Outcome	1994	87.4(1.9)	82.6(2.2)	92.3(2.1)	87.6(2.4)	85.6(5.6)	***(***)
	1992	87.3(1.6)	83.6(2.8)	90.6(1.7)	88.3(1.8)	82.3(4.7)	85.1(5.0)
	1990	89.1(1.5)	82.7(2.5)	95.5(1.5)	88.5(1.7)	90.1(2.6)	92.9(4.6)
	1988	91.1(1.3)	88.1(1.7)	93.7(1.8)	91.8(1.6)	89.5(3.5)	94.2(4.3)
	1984	90.0(0.7)	87.2(1.1)	92.9(0.9)	92.1(0.8)	83.1(2.0)	80.1(5.1)
Club document: Fees	1994	82.6(1.3)	77.5(2.2)	89.0(2.0)	86.6(1.4)	71.2(4.6)	***(***)
	1992	85.9(1.3)	84.1(2.0)	88.0(1.8)	90.5(1.3)	67.8(5.6)	82.9(5.6)
	1990	80.8(1.5)	75.9(2.4)	85.8(1.9)	84.7(1.4)	67.5(6.1)	75.0(XXX)
	1988	86.5(1.4)	87.4(2.2)	85.7(1.6)	87.7(1.5)	83.3(4.1)	80.8(6.2)
	1984	83.6(0.6)	82.6(0.9)	84.7(0.9)	86.6(0.7)	72.0(1.9)	76.5(3.9)
Club document: Billing	1994	33.9(2.4)	35.2(3.1)	32.0(2.5)	35.5(2.6)	30.9(4.5)	***(***)
	1992	32.3(1.9)	29.1(2.5)	35.8(2.8)	31.1(2.2)	34.2(5.5)	37.3(7.2)
	1990	36.5(2.1)	33.2(2.7)	39.8(3.2)	37.6(2.4)	29.5(4.8)	34.1(9.0)
	1988	31.4(2.3)	31.3(2.9)	31.6(3.8)	32.1(2.4)	24.1(3.5)	37.6(7.7)
	1984	39.2(0.8)	37.4(1.2)	41.0(1.3)	39.7(0.9)	37.3(2.3)	37.9(1.9)
Club document: Requirements	1994	77.7(1.4)	75.4(2.1)	80.5(2.6)	82.3(1.9)	68.8(5.0)	***(***)
	1992	79.0(1.9)	78.7(2.6)	79.4(2.1)	82.2(2.1)	72.5(5.2)	61.2(7.2)
	1990	77.6(1.8)	76.0(2.5)	79.3(2.7)	80.0(1.5)	68.9(6.8)	79.5(9.5)
	1988	79.8(2.1)	81.1(3.8)	79.0(2.0)	82.8(2.3)	73.0(4.9)	61.3(6.0)
	1984	79.7(0.8)	77.2(1.0)	82.3(1.0)	83.8(0.8)	65.5(2.2)	64.9(2.9)
Charley1 story: Problem	1994	82.5(1.8)	77.9(2.9)	88.3(2.0)	86.4(2.0)	71.8(3.8)	***(***)
	1992	85.3(1.5)	83.7(2.1)	87.1(1.9)	87.3(1.6)	75.0(5.3)	86.8(4.8)
	1990	85.2(1.5)	80.1(2.5)	90.4(1.6)	86.7(1.6)	78.7(4.2)	86.4(7.4)
	1988	85.9(1.8)	80.5(3.4)	90.6(1.6)	86.9(2.1)	79.0(5.0)	83.8(6.1)
	1984	83.7(0.7)	78.5(1.1)	89.1(0.8)	86.1(0.7)	72.0(2.2)	79.6(3.2)
Flying: 1st machine	1994	74.3(1.6)	72.6(2.8)	75.9(2.5)	80.9(1.8)	53.2(5.3)	52.8(5.2)
	1992	77.1(1.5)	80.0(2.1)	74.3(2.2)	82.4(1.7)	54.7(5.8)	72.0(9.1)
	1990	78.1(2.0)	82.1(2.9)	73.9(2.7)	81.6(1.7)	62.2(6.3)	76.5(7.6)
	1988	77.5(1.8)	81.0(2.6)	74.0(2.1)	80.8(1.8)	63.9(4.3)	68.5(7.5)
	1984	77.7(1.0)	80.8(1.3)	74.1(1.5)	81.3(1.0)	63.8(3.4)	67.3(4.3)
Flying: Types of planes	1994	79.2(2.2)	78.2(2.9)	80.2(3.1)	82.3(2.3)	75.5(6.7)	55.9(8.5)
	1992	81.5(1.6)	81.4(2.1)	81.7(2.4)	86.0(1.7)	70.8(5.3)	55.0(XXX)
	1990	81.7(1.8)	79.4(2.3)	84.2(2.3)	84.7(1.6)	72.0(5.5)	74.8(XXX)
	1988	80.8(1.3)	79.2(2.5)	82.5(2.3)	81.9(1.6)	75.5(4.3)	75.8(XXX)
	1984	81.1(1.2)	78.9(1.6)	83.6(1.2)	83.3(1.3)	72.2(3.3)	75.0(5.5)
Flying: Differences	1994	85.6(1.7)	84.8(2.7)	86.3(2.0)	90.3(1.7)	75.3(4.6)	63.3(8.7)
	1992	86.9(1.3)	86.1(1.7)	87.7(1.9)	88.4(1.3)	78.5(5.2)	86.0(7.2)
	1990	86.5(1.5)	84.6(2.5)	88.4(2.0)	89.7(1.4)	74.1(6.6)	86.4(4.9)
	1988	86.1(1.4)	84.5(2.2)	87.7(1.8)	86.5(1.5)	80.8(5.0)	92.2(4.7)
	1984	85.8(1.0)	84.8(1.4)	87.0(1.3)	88.4(1.1)	74.9(2.7)	78.7(3.7)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Science: Research	1994	55.0(2.0)	56.3(2.9)	54.0(2.6)	59.3(2.5)	45.5(7.1)	***(***)
	1992	58.5(2.0)	55.6(3.4)	61.3(2.3)	59.2(2.3)	54.3(4.4)	49.7(7.6)
	1990	58.0(2.1)	57.0(2.9)	59.0(3.5)	61.5(2.3)	42.2(6.1)	57.7(7.0)
	1988	54.0(2.2)	47.1(3.3)	61.0(2.8)	54.7(2.4)	46.9(4.8)	57.4(8.6)
	1984	54.2(1.1)	52.9(1.8)	55.7(1.3)	56.5(1.3)	42.1(2.6)	51.5(7.3)
Science: Evidence	1994	58.3(2.4)	54.1(3.5)	62.4(3.0)	62.5(2.4)	50.5(8.6)	***(***)
	1992	61.8(1.7)	57.7(2.6)	66.0(2.8)	65.4(2.1)	48.1(4.9)	54.6(XXX)
	1990	57.9(1.9)	52.3(2.7)	63.9(2.5)	59.8(2.1)	54.6(5.9)	44.7(9.8)
	1988	55.9(2.4)	54.3(3.6)	57.5(2.5)	55.5(2.6)	50.3(4.9)	70.3(5.6)
	1984	55.7(1.4)	51.8(1.7)	60.0(1.8)	59.7(1.6)	38.4(3.8)	46.6(3.5)
Phone call date	1994	87.2(1.5)	86.6(2.2)	87.6(1.9)	90.8(1.4)	76.1(4.6)	***(***)
	1992	89.5(1.2)	86.2(2.0)	92.8(1.8)	91.4(1.4)	78.9(4.2)	90.5(4.0)
	1990	87.3(1.5)	86.8(2.5)	87.8(1.9)	91.5(1.3)	71.3(5.3)	84.4(7.3)
	1988	85.0(2.1)	86.3(2.3)	83.8(3.1)	85.8(2.6)	79.1(4.0)	88.5(4.4)
	1984	86.2(1.2)	83.1(1.5)	89.6(1.2)	89.4(1.1)	73.8(3.2)	74.0(4.0)
Document: Phone location	1994	90.7(1.3)	90.3(1.8)	91.1(1.7)	93.6(1.2)	80.4(5.3)	***(***)
	1992	91.6(1.1)	87.8(2.0)	95.4(1.3)	93.4(1.4)	86.1(4.0)	87.3(4.9)
	1990	90.1(1.3)	88.5(2.2)	91.8(1.2)	92.7(1.2)	81.0(4.9)	87.7(9.0)
	1988	89.2(1.5)	89.7(1.9)	88.8(2.6)	89.6(1.9)	88.4(3.7)	87.1(4.5)
	1984	89.8(0.9)	87.8(1.2)	92.0(1.0)	91.8(0.8)	81.7(3.2)	82.4(3.1)
Document: Phone charge	1994	93.5(1.3)	94.4(1.8)	92.5(1.9)	93.8(1.5)	94.4(2.8)	***(***)
	1992	94.4(0.9)	95.5(1.2)	93.2(1.4)	95.7(0.9)	92.7(2.1)	81.4(9.7)
	1990	92.2(1.2)	93.3(1.6)	91.0(1.7)	93.3(1.0)	84.8(4.7)	94.2(3.6)
	1988	94.3(1.3)	94.4(1.5)	94.3(2.1)	93.7(1.6)	95.3(1.9)	97.6(1.4)
	1984	91.6(1.1)	90.4(1.2)	92.9(1.4)	92.3(1.2)	88.3(1.9)	89.8(2.4)
Story: Prediction about Mary	1994	66.3(2.3)	59.8(3.9)	72.9(2.6)	68.6(2.7)	60.7(6.8)	***(***)
	1992	72.8(1.8)	69.8(2.4)	76.1(2.3)	76.5(2.1)	63.0(5.8)	66.2(8.7)
	1990	75.0(1.8)	73.0(2.6)	76.9(2.4)	78.0(2.1)	65.9(4.9)	59.3(9.3)
	1988	74.9(2.0)	71.3(2.8)	78.0(2.6)	79.0(2.5)	69.0(5.1)	49.7(8.3)
	1984	69.7(1.0)	65.3(1.3)	74.6(1.2)	72.7(1.2)	61.8(2.8)	61.3(3.1)
Science: Cue words	1994	67.9(2.4)	61.0(3.7)	75.2(2.7)	69.9(2.8)	65.9(5.8)	***(***)
	1992	67.2(1.7)	67.2(2.8)	67.3(2.9)	69.6(2.0)	58.1(4.5)	67.6(7.0)
	1990	68.9(2.1)	65.5(2.7)	72.2(2.8)	68.8(2.4)	71.4(4.8)	62.2(4.8)
	1988	68.4(3.3)	67.8(3.9)	68.9(4.8)	69.7(3.8)	63.9(7.8)	58.1(XXX)
	1984	58.4(1.4)	53.8(1.9)	63.4(1.4)	61.4(1.6)	47.9(3.5)	48.2(4.6)
Science: Area of study	1994	80.1(1.9)	74.9(3.1)	85.4(2.0)	83.7(1.9)	70.6(6.1)	***(***)
	1992	80.5(1.8)	79.6(2.3)	81.4(2.3)	84.5(1.9)	68.4(5.3)	70.4(5.4)
	1990	83.0(1.8)	81.0(2.4)	85.0(2.5)	85.8(2.1)	73.2(5.4)	75.4(XXX)
	1988	82.4(2.4)	81.6(2.6)	83.0(2.8)	86.8(2.2)	60.3(7.7)	75.5(9.1)
	1984	76.3(1.1)	73.8(1.6)	79.1(1.5)	79.6(1.3)	63.6(2.8)	67.0(4.0)
Biography: Honors	1994	94.0(1.2)	90.8(2.0)	97.2(0.9)	93.3(1.7)	94.1(2.4)	***(***)
	1992	94.5(1.0)	93.8(1.5)	95.3(1.6)	96.0(1.1)	91.5(3.2)	89.7(4.1)
	1990	96.4(0.6)	95.2(1.0)	97.6(0.8)	96.9(0.6)	95.6(1.9)	91.2(4.6)
	1988	93.6(1.2)	89.7(2.3)	97.0(0.8)	95.8(0.8)	86.8(4.4)	85.5(7.6)
	1984	94.7(0.8)	92.3(1.2)	97.2(0.6)	95.5(0.8)	91.7(1.5)	91.8(1.9)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Biography: Accomplishments	1994	95.3(1.1)	92.0(1.7)	98.7(0.7)	95.3(1.3)	94.2(2.4)	***(***)
	1992	94.7(1.2)	94.0(1.4)	95.5(1.5)	96.3(1.0)	94.6(2.5)	85.3(5.7)
	1990	96.8(0.6)	95.1(1.3)	98.4(0.7)	97.2(0.6)	96.3(1.9)	95.8(3.7)
	1988	94.9(1.0)	91.6(1.9)	97.8(0.8)	95.0(1.1)	96.8(2.4)	89.3(7.0)
	1984	96.2(0.5)	94.2(0.8)	98.4(0.4)	96.3(0.5)	96.3(1.1)	96.3(1.4)
Sport history: Popularity	1994	86.2(1.8)	85.7(2.6)	86.7(2.1)	87.5(1.7)	84.4(5.1)	76.7(7.9)
	1992	86.8(1.3)	84.0(2.1)	89.7(1.7)	88.7(1.6)	77.9(3.4)	87.0(5.6)
	1990	85.3(1.6)	84.4(2.4)	86.3(1.8)	88.4(1.6)	78.9(4.6)	78.7(7.0)
	1988	79.0(1.6)	79.1(3.1)	78.8(2.2)	79.3(2.0)	79.4(4.9)	70.6(9.0)
	1984	82.0(1.0)	80.7(1.4)	83.3(1.1)	83.3(1.0)	75.4(2.8)	77.3(3.8)
Sport history: Royalty	1994	87.4(1.7)	85.9(2.3)	88.7(2.3)	88.1(1.9)	83.9(5.9)	84.6(6.9)
	1992	90.1(1.4)	87.2(2.1)	93.0(1.7)	90.9(1.6)	83.6(3.3)	94.1(3.0)
	1990	90.8(1.6)	87.5(2.6)	94.3(1.4)	91.9(1.8)	83.1(4.9)	93.4(2.9)
	1988	86.8(1.9)	85.5(2.9)	88.1(2.3)	86.8(2.2)	82.6(4.1)	92.7(4.8)
	1984	90.2(0.9)	88.9(1.2)	91.5(0.9)	91.7(0.9)	83.6(2.8)	85.5(2.9)
Sport history: General	1994	79.7(1.7)	76.4(2.6)	82.9(2.6)	82.4(1.7)	69.9(4.3)	69.1(7.6)
	1992	83.4(1.6)	77.1(2.6)	89.8(1.7)	84.6(1.9)	81.1(4.7)	76.0(8.0)
	1990	81.9(2.0)	76.8(2.7)	87.2(2.2)	84.7(2.0)	72.8(5.1)	79.1(7.4)
	1988	76.1(2.2)	68.9(3.5)	83.3(2.2)	74.8(2.9)	75.5(5.5)	86.5(5.3)
	1984	79.8(0.8)	75.4(1.1)	84.3(1.0)	82.0(0.8)	71.6(3.8)	67.0(2.5)
Sport history: English	1994	60.3(2.1)	64.7(3.2)	56.1(3.0)	64.2(2.5)	43.7(5.8)	45.0(5.2)
	1992	62.5(1.5)	65.3(2.3)	59.8(2.0)	64.3(1.6)	55.9(5.6)	57.1(XXX)
	1990	67.9(1.5)	67.1(2.5)	68.8(2.3)	69.6(1.8)	61.7(5.4)	64.2(7.5)
	1988	56.9(2.5)	57.0(3.6)	56.9(3.5)	55.4(2.9)	55.1(4.1)	73.7(8.8)
	1984	62.6(1.5)	65.9(1.7)	59.2(2.1)	65.1(1.5)	52.3(3.6)	50.5(2.6)
Sport history: Contemporary	1994	89.1(1.3)	91.8(1.9)	86.4(1.8)	92.1(1.6)	78.8(4.7)	80.6(4.2)
	1992	88.6(1.3)	90.3(1.9)	86.8(2.1)	91.2(1.4)	81.1(4.8)	74.8(8.7)
	1990	89.5(1.5)	90.5(2.1)	88.6(1.8)	92.7(1.5)	78.8(4.5)	82.9(7.2)
	1988	90.3(1.7)	91.0(2.3)	89.5(1.9)	91.2(2.1)	87.3(2.8)	87.0(5.6)
	1984	89.0(0.8)	90.1(1.0)	87.9(1.1)	92.1(0.8)	77.7(2.5)	77.5(5.0)
Civics: Document description	1994	50.4(2.4)	44.2(3.3)	56.3(2.9)	55.4(2.7)	37.3(7.5)	***(***)
	1992	50.3(1.9)	47.6(2.8)	53.0(2.6)	53.4(2.3)	39.0(4.3)	43.1(8.6)
	1990	48.8(1.8)	44.2(2.6)	53.5(2.8)	52.5(1.9)	34.4(4.5)	45.6(8.5)
	1988	46.2(1.9)	42.9(3.7)	49.6(2.6)	50.2(2.5)	32.3(5.1)	33.5(8.5)
	1984	46.8(1.4)	43.3(2.1)	50.4(1.7)	50.4(1.4)	34.2(3.2)	32.0(4.1)
Civics: Importance of court	1994	64.1(2.2)	62.9(3.0)	65.1(3.0)	66.0(2.4)	61.7(7.5)	***(***)
	1992	61.7(1.7)	62.1(2.2)	61.3(2.7)	66.6(2.1)	47.3(5.2)	40.4(9.0)
	1990	62.5(1.8)	63.1(3.2)	61.9(3.2)	66.4(2.0)	47.9(4.8)	51.9(8.5)
	1988	62.7(3.1)	63.6(3.8)	61.8(3.0)	63.5(4.0)	53.4(4.4)	75.3(6.5)
	1984	60.3(1.0)	60.2(1.6)	60.5(1.4)	60.9(1.1)	57.7(3.2)	56.0(5.3)
Civics: Vocabulary	1994	19.0(1.6)	17.7(2.0)	20.4(2.3)	22.3(1.8)	7.4(2.6)	***(***)
	1992	20.5(1.4)	18.1(2.2)	22.9(1.8)	22.3(1.6)	13.7(4.3)	9.7(5.6)
	1990	21.3(1.5)	19.7(2.0)	23.0(2.3)	24.6(1.7)	12.0(3.8)	9.3(3.6)
	1988	20.2(2.1)	20.6(3.3)	19.9(3.4)	21.2(2.5)	14.5(4.1)	15.2(4.4)
	1984	22.3(1.2)	23.5(1.6)	21.0(1.4)	25.2(1.5)	9.8(1.7)	12.5(2.5)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
U.S. History: Transportation	1994	93.5(1.1)	93.6(1.1)	93.4(1.8)	94.9(1.3)	91.4(3.6)	***(***)
	1992	93.5(0.9)	93.0(1.6)	94.0(1.4)	95.4(0.9)	84.8(3.7)	89.0(6.7)
	1990	92.1(1.3)	89.4(2.0)	95.0(1.3)	93.3(1.1)	87.4(4.0)	91.9(5.0)
	1988	91.7(1.5)	91.9(1.8)	91.4(2.7)	93.3(1.8)	89.6(4.2)	76.9(6.4)
	1984	93.6(0.7)	92.4(0.8)	94.8(0.8)	95.1(0.7)	88.8(1.7)	85.2(3.2)
U.S. History: Vocabulary	1994	85.4(1.4)	86.3(2.2)	84.4(2.5)	89.9(1.5)	67.2(6.1)	***(***)
	1992	88.1(1.4)	91.1(1.8)	85.1(2.4)	92.5(1.2)	70.8(5.3)	78.3(XXX)
	1990	86.8(1.8)	88.9(2.5)	84.7(2.1)	88.9(1.6)	78.3(5.7)	87.5(6.8)
	1988	88.6(1.4)	88.2(2.5)	89.1(2.1)	89.9(1.4)	82.3(3.7)	86.5(5.4)
	1984	88.5(0.8)	88.5(1.2)	88.5(0.9)	90.5(0.9)	80.9(2.3)	77.7(3.2)
Summer job: Apply for SS card	1994	92.2(1.4)	89.6(2.1)	94.7(1.5)	95.1(1.2)	83.4(4.5)	88.1(4.4)
	1992	91.8(1.1)	88.2(1.8)	95.9(1.3)	93.9(1.2)	77.8(4.0)	95.0(2.8)
	1990	91.4(1.4)	88.7(2.0)	94.2(1.5)	92.5(1.6)	84.1(4.2)	92.8(4.2)
	1988	93.5(1.2)	90.3(2.2)	96.7(1.1)	95.0(1.4)	91.2(2.8)	75.1(5.8)
	1984	91.2(0.8)	88.1(1.1)	94.5(0.8)	92.6(0.7)	86.0(1.9)	86.2(3.8)
Summer job: When to look	1994	82.8(1.8)	79.3(2.3)	86.1(2.3)	84.7(2.0)	80.2(4.3)	72.4(5.0)
	1992	83.6(1.6)	80.0(2.5)	87.6(1.6)	88.0(1.6)	66.5(5.7)	71.2(7.6)
	1990	81.5(1.6)	80.7(2.0)	82.4(2.3)	85.3(1.7)	76.5(4.4)	66.9(5.8)
	1988	82.9(1.8)	78.6(2.8)	87.1(2.0)	88.0(1.8)	68.2(5.0)	63.4(7.6)
	1984	85.1(0.8)	83.1(1.1)	87.2(1.1)	87.7(0.9)	76.5(2.4)	74.3(4.2)
Summer job: Documents needed	1994	73.8(2.0)	72.8(3.2)	75.0(2.1)	77.6(2.4)	65.1(4.0)	62.2(7.3)
	1992	70.8(2.0)	67.1(2.5)	75.1(2.5)	74.9(2.2)	54.5(6.5)	60.8(6.2)
	1990	74.4(1.5)	68.7(2.3)	80.5(2.6)	78.2(1.8)	59.0(4.4)	67.4(6.4)
	1988	77.8(1.9)	75.5(2.5)	80.0(2.9)	82.0(1.7)	65.4(4.7)	60.3(XXX)
	1984	73.6(1.1)	72.0(1.8)	75.4(1.4)	76.4(1.3)	63.6(2.8)	63.8(3.6)
Summer job: Job references	1994	83.2(1.6)	77.7(2.8)	88.5(1.6)	87.1(2.3)	78.4(3.8)	66.4(5.1)
	1992	81.3(1.5)	77.1(2.1)	86.0(1.9)	86.5(1.5)	63.0(6.8)	61.0(6.0)
	1990	86.6(1.5)	83.9(2.1)	89.4(1.5)	88.7(1.4)	79.5(4.6)	87.1(4.8)
	1988	86.9(1.5)	83.6(2.4)	90.2(1.7)	89.2(1.6)	79.5(4.9)	75.8(8.6)
	1984	83.6(0.7)	80.7(1.2)	86.7(1.3)	86.4(0.9)	74.0(2.8)	71.0(2.8)
Bobby story fact	1994	86.5(1.2)	82.8(2.0)	90.3(2.1)	89.1(1.8)	78.3(5.8)	80.1(3.7)
	1992	87.4(1.3)	85.9(1.9)	89.2(1.8)	88.5(1.4)	84.1(5.3)	86.4(5.9)
	1990	89.2(1.4)	86.6(2.0)	92.1(1.5)	90.4(1.5)	87.7(3.6)	80.7(5.2)
	1988	87.7(1.7)	82.7(2.8)	92.7(1.5)	88.5(1.7)	85.2(4.5)	84.1(6.2)
	1984	87.7(0.7)	84.6(1.1)	91.0(0.9)	89.2(0.8)	82.4(2.0)	78.0(3.4)
"Learn to read": Same meaning	1994	92.5(1.3)	92.3(1.7)	93.1(1.9)	95.0(1.3)	81.5(4.7)	92.1(3.7)
	1992	93.8(1.1)	90.2(1.7)	97.8(0.6)	95.8(1.0)	88.0(4.4)	90.7(3.8)
	1990	91.2(1.4)	88.3(1.9)	94.3(1.3)	91.5(1.7)	91.5(3.1)	86.7(6.2)
	1988	93.0(1.3)	92.6(2.3)	93.5(1.6)	94.6(1.1)	86.4(5.4)	87.7(5.4)
	1984	90.7(0.6)	88.5(0.9)	93.0(0.9)	91.5(0.7)	88.7(1.8)	85.1(4.5)
Comparison of characteristics	1994	77.0(1.8)	73.7(2.9)	80.5(2.1)	79.4(2.1)	72.4(4.9)	69.4(5.4)
	1992	80.6(1.4)	77.1(2.7)	84.6(2.0)	83.4(1.7)	73.2(3.6)	62.9(5.2)
	1990	82.2(1.6)	77.5(2.1)	87.2(2.4)	83.9(1.7)	79.9(4.9)	70.0(5.4)
	1988	75.7(2.1)	77.2(3.2)	74.0(2.4)	77.8(2.4)	67.5(3.7)	71.0(8.3)
	1984	79.8(0.8)	77.7(1.3)	82.2(1.1)	82.2(1.0)	70.5(2.7)	72.5(2.9)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Steps in performing a trick	1994	91.3(1.2)	90.4(1.7)	92.5(1.9)	94.7(1.2)	85.8(4.7)	78.4(4.2)
	1992	91.6(1.2)	87.5(1.9)	96.1(1.2)	92.8(1.1)	84.8(5.0)	88.7(5.6)
	1990	91.4(1.3)	88.6(1.9)	94.3(1.4)	91.3(1.4)	91.0(3.1)	89.7(3.7)
	1988	93.8(1.3)	90.6(2.6)	97.0(1.0)	95.6(1.0)	87.7(5.8)	83.1(6.6)
	1984	90.1(0.9)	86.6(1.3)	93.9(0.9)	91.1(1.0)	86.5(1.8)	87.0(3.8)
Setting for a trick	1994	80.6(1.9)	79.5(2.1)	81.8(2.5)	84.6(1.9)	63.1(4.7)	77.0(6.4)
	1992	84.4(1.5)	79.7(2.3)	89.6(1.9)	88.6(1.4)	71.0(5.7)	63.9(6.0)
	1990	84.8(1.4)	81.9(2.1)	87.9(1.7)	86.8(1.6)	80.2(4.0)	73.9(5.5)
	1988	83.8(1.8)	82.0(2.5)	85.5(2.6)	85.4(2.2)	74.7(3.9)	82.2(6.8)
	1984	83.7(1.0)	81.3(1.6)	86.4(1.2)	85.6(1.2)	77.7(2.5)	74.6(4.4)
Result of food chain	1994	87.0(1.4)	85.5(2.3)	88.7(1.7)	88.0(1.5)	85.5(4.1)	89.9(5.3)
	1992	84.8(1.5)	81.0(2.2)	89.0(1.6)	86.6(1.3)	77.6(5.2)	72.3(5.0)
	1990	85.9(1.2)	83.7(1.8)	88.2(1.8)	86.4(1.5)	80.0(5.0)	91.4(4.2)
	1988	80.3(1.6)	76.3(2.4)	84.1(2.6)	84.1(1.2)	70.4(6.0)	63.3(8.9)
	1984	82.0(0.9)	80.1(1.3)	83.9(1.2)	83.0(1.1)	79.3(3.8)	74.2(4.0)
Food chain main idea	1994	78.9(1.8)	79.1(2.4)	78.7(2.5)	83.2(2.1)	62.7(6.2)	75.3(7.1)
	1992	80.9(1.2)	78.4(2.2)	83.7(1.9)	84.7(1.4)	68.8(5.6)	61.2(6.0)
	1990	77.4(1.8)	76.4(2.8)	78.5(2.3)	79.7(2.1)	73.7(4.7)	64.3(7.6)
	1988	77.4(2.3)	77.1(3.4)	78.2(2.8)	81.3(2.6)	66.2(4.2)	67.7(XXX)
	1984	78.9(1.1)	79.1(1.9)	78.6(1.1)	81.2(1.4)	68.0(2.9)	67.3(3.9)
Best title for Scott story	1994	51.0(3.1)	51.9(3.4)	50.2(4.1)	54.2(3.4)	50.1(7.8)	***(***)
	1992	52.1(2.1)	52.0(2.7)	52.2(3.0)	54.9(2.7)	43.5(4.6)	46.3(6.4)
	1990	49.7(2.1)	45.9(2.9)	53.4(3.1)	52.7(2.2)	38.5(4.3)	41.9(9.6)
	1988	52.1(2.8)	49.2(4.9)	54.4(2.9)	51.4(3.4)	57.7(5.3)	41.6(7.9)
	1984	49.8(0.9)	48.9(1.4)	50.7(1.3)	51.4(1.2)	41.6(3.0)	42.6(2.7)
Scott story fact	1994	74.7(2.0)	77.2(2.6)	72.6(3.0)	74.7(2.4)	77.1(4.4)	***(***)
	1992	73.2(1.7)	69.9(2.4)	77.4(2.0)	71.6(1.9)	80.4(4.6)	70.8(7.0)
	1990	73.2(1.8)	73.8(2.7)	72.6(2.5)	73.5(1.7)	72.2(6.2)	70.1(7.4)
	1988	76.5(2.2)	69.8(3.1)	82.3(2.3)	75.7(2.6)	81.9(5.3)	69.7(8.4)
	1984	73.7(0.9)	70.8(1.5)	76.9(1.2)	73.3(1.1)	75.3(2.3)	73.8(4.0)
Scott story definition	1994	40.2(2.5)	42.6(3.3)	38.1(3.8)	42.8(3.0)	39.0(6.4)	***(***)
	1992	38.7(2.5)	38.9(3.0)	38.4(2.9)	36.7(2.3)	43.5(6.6)	44.2(8.5)
	1990	38.9(1.8)	35.7(2.2)	42.1(2.9)	43.0(2.0)	21.1(4.1)	23.3(9.2)
	1988	37.6(3.5)	35.8(5.7)	39.3(3.1)	38.7(4.2)	32.7(4.9)	35.1(9.7)
	1984	37.6(0.9)	35.8(1.4)	39.6(1.3)	38.9(1.1)	32.0(2.7)	34.8(1.9)
Women's vote: Central purpose	1994	81.9(1.9)	75.4(2.9)	87.6(2.7)	83.0(2.4)	81.4(4.5)	***(***)
	1992	77.4(1.4)	72.5(2.2)	83.6(2.1)	79.2(1.5)	67.6(4.3)	77.4(4.5)
	1990	81.8(1.7)	77.8(2.7)	85.8(1.9)	85.0(1.8)	62.6(5.3)	85.1(5.8)
	1988	83.3(1.4)	79.8(2.2)	86.4(2.1)	83.2(1.8)	79.7(3.4)	95.5(4.7)
	1984	79.9(1.0)	74.9(1.4)	85.2(1.3)	80.1(1.1)	80.1(2.7)	75.0(4.1)
Women's vote: Vocabulary	1994	64.6(2.5)	63.1(3.2)	65.9(2.9)	63.9(3.2)	66.5(5.7)	***(***)
	1992	59.2(1.8)	56.9(2.2)	62.1(2.8)	60.7(1.8)	52.6(6.9)	54.6(4.5)
	1990	59.7(1.8)	56.5(2.5)	62.8(2.9)	62.1(2.3)	48.5(4.8)	56.0(7.1)
	1988	57.6(2.1)	54.3(2.5)	60.2(3.2)	57.0(2.5)	61.8(4.6)	53.6(8.1)
	1984	59.6(1.1)	57.7(1.7)	61.6(1.1)	59.6(1.2)	63.4(3.2)	49.9(4.3)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Women's vote: Recall of fact	1994	70.2(2.1)	63.5(3.0)	75.8(3.3)	72.7(2.3)	65.6(6.1)	***(***)
	1992	66.4(2.1)	61.8(2.4)	72.2(2.6)	67.7(2.3)	64.9(6.1)	52.0(5.8)
	1990	64.5(2.0)	56.1(2.4)	72.7(2.7)	65.1(2.2)	59.3(4.8)	65.4(XXX)
	1988	67.6(3.3)	61.3(5.2)	73.5(2.9)	69.3(3.9)	59.6(5.8)	56.5(9.9)
	1984	66.0(1.2)	63.0(1.7)	69.2(1.5)	66.9(1.3)	65.1(2.6)	56.7(7.4)
Women's vote: Women join fight	1994	77.5(2.5)	73.7(3.4)	80.8(3.0)	80.6(2.6)	73.0(6.1)	***(***)
	1992	76.1(1.8)	71.0(2.5)	82.5(2.2)	77.2(2.1)	71.3(5.3)	72.6(5.5)
	1990	76.5(1.8)	72.2(2.9)	80.6(2.3)	79.7(2.0)	67.6(5.1)	64.8(XXX)
	1988	77.7(1.7)	71.7(2.8)	83.0(2.4)	80.5(2.1)	64.5(4.7)	70.0(6.7)
	1984	74.8(1.2)	70.2(1.5)	79.8(1.5)	76.4(1.3)	68.6(3.5)	68.8(5.1)
Women's vote: Woman's response	1994	77.4(2.1)	69.0(3.1)	84.7(3.0)	80.4(2.1)	70.0(5.7)	***(***)
	1992	74.4(1.5)	68.1(2.3)	82.5(1.9)	74.9(1.5)	72.2(5.8)	68.3(5.1)
	1990	76.1(1.9)	67.2(2.4)	84.6(2.5)	79.3(1.8)	64.7(6.1)	66.3(7.3)
	1988	77.0(2.2)	71.3(3.8)	82.0(2.8)	79.0(2.5)	64.8(5.4)	73.8(XXX)
	1984	75.5(1.1)	66.4(1.7)	85.2(1.4)	77.4(1.4)	65.9(2.4)	69.8(3.4)
Women's vote: National support	1994	63.2(2.0)	60.2(3.4)	65.9(3.1)	67.6(2.1)	60.2(6.0)	***(***)
	1992	67.9(2.2)	64.4(3.1)	72.5(2.6)	70.6(2.3)	58.7(5.8)	54.1(6.6)
	1990	67.5(2.1)	64.4(2.9)	70.4(2.9)	72.1(2.1)	48.5(5.5)	58.9(9.4)
	1988	71.5(1.2)	64.2(2.9)	78.2(1.7)	71.1(1.2)	71.3(4.5)	76.6(7.5)
	1984	66.2(1.1)	63.2(1.6)	69.4(1.7)	68.1(1.3)	57.8(2.9)	57.3(3.0)
Fact about pet care	1994	79.9(2.0)	74.0(2.9)	84.9(2.5)	84.9(2.1)	64.0(5.1)	***(***)
	1992	79.8(1.5)	75.6(2.0)	85.1(2.1)	83.6(1.5)	70.0(5.2)	67.8(5.5)
	1990	73.1(1.4)	68.4(2.5)	77.5(2.3)	80.5(1.4)	52.8(5.2)	38.9(6.6)
	1988	76.7(2.1)	68.6(3.4)	83.8(2.4)	78.7(2.2)	69.8(3.7)	67.2(XXX)
	1984	77.6(1.2)	74.0(1.9)	81.4(1.5)	81.5(1.3)	61.9(3.7)	54.6(5.3)
Fact about health of pet	1994	68.1(1.9)	69.2(3.5)	67.3(3.0)	75.4(1.9)	47.8(5.2)	***(***)
	1992	72.8(1.9)	68.2(2.8)	78.6(2.6)	76.5(2.2)	57.0(5.4)	72.6(6.6)
	1990	69.5(1.8)	63.4(2.7)	75.2(2.1)	74.3(1.7)	53.5(5.4)	61.0(6.8)
	1988	74.3(2.1)	72.6(3.5)	75.6(2.8)	78.4(2.1)	53.1(7.4)	72.8(7.0)
	1984	72.6(1.2)	71.0(2.0)	74.2(1.6)	76.8(1.3)	52.4(3.4)	57.1(5.5)
Sport: Main reason	1994	75.1(2.2)	74.3(3.0)	75.9(3.4)	78.0(2.4)	62.1(7.3)	***(***)
	1992	76.6(1.7)	75.3(2.3)	78.1(2.1)	80.5(2.2)	63.6(6.2)	58.7(6.9)
	1990	77.6(1.9)	73.6(2.6)	81.3(2.4)	81.4(1.9)	55.3(6.6)	74.4(6.8)
	1988	73.3(2.5)	73.7(4.3)	72.8(2.3)	76.7(2.8)	54.6(5.6)	62.2(5.5)
	1984	72.9(1.2)	69.3(1.4)	76.7(1.7)	75.8(1.3)	57.3(3.3)	57.3(6.3)
Survive climb: Conditions	1994	72.5(2.0)	69.7(2.8)	75.8(2.9)	76.4(2.4)	60.5(7.9)	***(***)
	1992	73.5(1.9)	75.8(3.2)	70.9(2.8)	79.9(1.7)	48.2(6.7)	68.1(6.7)
	1990	74.2(1.9)	73.2(2.3)	75.2(2.7)	78.4(1.9)	61.2(4.8)	64.2(XXX)
	1988	79.6(1.5)	81.4(2.3)	78.4(2.2)	83.3(1.7)	76.6(4.1)	44.8(6.2)
	1984	71.9(0.9)	73.3(1.5)	70.4(1.7)	75.0(1.0)	61.5(4.0)	57.7(3.1)
Survive climb: Character role	1994	60.3(2.3)	53.4(3.6)	69.4(3.2)	64.9(2.6)	47.1(5.4)	***(***)
	1992	64.7(1.6)	61.4(2.6)	68.4(2.7)	68.1(2.0)	50.4(5.8)	63.9(6.0)
	1990	63.3(1.9)	58.8(2.7)	67.7(2.7)	67.0(2.0)	48.7(5.0)	48.1(9.5)
	1988	62.6(1.9)	54.5(3.1)	69.6(2.8)	63.0(2.1)	65.1(4.1)	62.4(8.3)
	1984	60.1(1.1)	53.6(1.2)	66.9(1.7)	62.2(1.4)	49.6(3.5)	55.9(3.4)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Survive climb: Character trait	1994	73.7(2.0)	72.0(2.9)	75.6(3.6)	76.5(2.3)	58.1(4.8)	***(***)
	1992	75.6(1.7)	77.6(2.7)	73.3(2.6)	80.8(1.9)	56.7(5.4)	68.0(8.0)
	1990	75.7(1.8)	76.6(2.4)	74.8(2.5)	79.1(2.1)	63.1(4.8)	71.6(6.8)
	1988	79.4(1.9)	81.0(2.7)	77.9(3.1)	82.7(2.2)	74.4(5.3)	47.7(5.3)
	1984	74.7(1.3)	73.8(1.8)	75.6(1.7)	77.8(1.3)	64.0(3.6)	57.5(4.4)
Survive climb: Resolution	1994	76.2(2.4)	71.4(3.2)	82.4(2.9)	79.5(2.2)	67.3(6.9)	***(***)
	1992	76.3(1.5)	73.3(2.8)	79.6(2.2)	80.8(1.7)	58.1(4.3)	73.3(6.6)
	1990	74.8(1.8)	69.9(2.4)	79.7(2.3)	78.0(2.2)	60.2(5.0)	79.6(9.3)
	1988	74.9(1.9)	67.7(2.8)	81.5(2.6)	77.9(2.1)	68.5(4.0)	58.3(6.7)
	1984	75.2(1.0)	69.5(1.3)	81.2(1.4)	77.7(1.1)	64.8(2.4)	67.0(4.7)
Phone document for New York	1994	71.6(2.4)	70.6(2.5)	72.8(3.6)	75.8(2.5)	58.1(6.2)	***(***)
	1992	72.6(2.0)	75.4(2.8)	69.4(3.0)	77.5(1.5)	47.4(7.6)	73.5(7.2)
	1990	71.3(2.0)	71.1(2.9)	71.5(2.3)	72.7(2.3)	59.6(7.2)	73.3(9.1)
	1988	74.7(2.2)	75.4(3.1)	74.4(2.8)	77.9(2.4)	62.5(4.8)	63.8(7.6)
	1984	69.9(1.1)	68.8(1.6)	71.0(1.7)	72.2(1.2)	57.2(3.4)	66.8(4.8)
Phone document for Syracuse	1994	86.0(1.5)	84.7(1.8)	87.6(2.5)	87.3(2.0)	83.7(4.5)	***(***)
	1992	85.1(1.6)	86.3(2.1)	83.9(2.1)	87.2(1.5)	78.5(5.3)	83.4(5.0)
	1990	84.6(1.3)	86.0(2.0)	83.3(1.8)	87.0(1.4)	78.2(4.1)	80.4(7.3)
	1988	87.1(2.1)	88.9(2.4)	85.5(2.6)	88.4(2.0)	88.6(4.2)	74.8(7.5)
	1984	84.8(0.8)	82.5(1.2)	87.3(1.2)	85.8(1.0)	78.7(2.7)	84.2(2.6)
Tiresome jobs – 1900's	1994	63.3(2.1)	62.0(3.3)	64.6(2.3)	66.7(2.7)	44.4(5.7)	***(***)
	1992	62.1(1.7)	58.9(2.5)	65.6(2.5)	67.2(1.8)	34.3(5.6)	66.6(4.8)
	1990	66.6(1.7)	64.4(2.5)	68.9(2.6)	71.2(2.0)	47.3(5.3)	71.7(XXX)
	1988	68.9(2.4)	63.8(2.5)	73.7(3.8)	69.6(3.1)	64.1(4.5)	66.9(6.5)
	1984	70.4(1.0)	66.2(1.8)	74.9(1.3)	73.0(1.2)	58.3(3.4)	62.5(6.7)
Jobs in the woods – 1900's	1994	78.5(2.5)	71.8(3.1)	86.9(2.5)	84.1(2.7)	65.4(6.6)	***(***)
	1992	76.3(1.6)	74.5(2.8)	78.4(2.3)	82.0(1.7)	56.4(6.4)	64.3(5.6)
	1990	81.6(1.5)	79.3(2.0)	83.8(2.1)	84.0(1.7)	72.2(4.1)	79.3(9.6)
	1988	82.6(1.4)	81.9(2.2)	83.3(2.4)	84.9(1.6)	73.3(4.2)	78.3(5.3)
	1984	79.5(1.1)	73.3(1.9)	85.8(1.2)	81.8(1.3)	66.9(3.0)	75.0(4.9)
Home jobs – 1900's	1994	82.9(1.6)	75.0(2.3)	92.7(1.8)	87.2(1.8)	67.2(7.1)	***(***)
	1992	85.6(1.5)	79.9(2.6)	92.0(1.3)	89.2(1.3)	73.7(4.7)	74.8(6.7)
	1990	88.1(1.1)	81.7(2.1)	94.4(1.1)	89.8(1.5)	81.0(3.3)	82.1(8.9)
	1988	89.0(1.7)	82.4(2.9)	94.7(1.3)	90.4(2.1)	84.7(3.8)	79.5(5.6)
	1984	87.7(0.8)	82.4(1.4)	93.2(0.8)	89.1(1.0)	80.2(3.4)	86.7(3.3)
History of arts before 1940	1994	42.6(2.2)	41.1(3.7)	44.2(3.1)	48.0(2.8)	23.9(5.5)	***(***)
	1992	42.9(2.2)	46.2(3.4)	39.1(3.0)	49.0(3.0)	28.3(3.8)	23.3(5.4)
	1990	41.4(2.0)	41.6(2.9)	41.3(2.4)	47.0(2.2)	24.2(3.6)	21.9(6.5)
	1988	45.2(2.4)	47.1(3.0)	43.4(3.5)	49.7(3.0)	33.8(4.7)	16.1(7.1)
	1984	39.3(1.3)	39.1(1.5)	39.5(1.6)	41.8(1.5)	24.8(2.2)	38.1(6.0)
Historical privilege of arts	1994	51.8(2.4)	51.3(3.1)	52.5(3.2)	53.6(3.1)	52.2(5.8)	***(***)
	1992	47.8(1.9)	46.8(2.6)	48.9(2.4)	55.0(2.6)	26.6(4.6)	35.5(5.2)
	1990	48.4(2.0)	47.3(3.5)	49.5(2.7)	52.5(2.1)	32.0(5.5)	35.7(4.0)
	1988	51.9(2.8)	49.3(3.2)	54.2(3.9)	55.9(3.1)	40.9(5.0)	28.1(6.4)
	1984	50.8(1.4)	47.3(1.6)	54.3(1.7)	52.3(1.6)	41.8(2.7)	49.2(4.0)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Mass production of art	1994	33.7(2.4)	27.8(3.1)	39.9(3.5)	35.4(2.5)	24.1(5.1)	***(***)
	1992	30.3(2.0)	28.6(2.8)	32.2(2.8)	33.8(2.6)	20.0(4.8)	23.8(5.6)
	1990	28.8(1.8)	31.2(2.8)	26.5(2.2)	28.7(1.9)	24.0(5.8)	34.0(8.5)
	1988	28.4(2.0)	23.2(3.6)	32.9(3.1)	28.8(2.0)	25.8(5.4)	24.7(6.9)
	1984	31.4(1.0)	28.3(1.4)	34.5(1.5)	32.3(1.3)	27.7(2.4)	25.7(8.3)
History of gold rush fact	1994	75.6(1.6)	72.1(2.6)	79.2(2.4)	79.5(1.6)	65.6(5.0)	***(***)
	1992	81.5(1.5)	79.4(2.4)	83.9(2.0)	85.6(2.1)	71.2(3.2)	72.4(6.4)
	1990	79.6(1.5)	79.0(2.1)	80.2(2.2)	84.0(1.6)	62.2(5.4)	69.3(5.8)
	1988	73.5(1.9)	67.7(3.1)	78.6(3.1)	74.8(2.1)	71.9(4.0)	61.1(9.9)
	1984	71.7(1.3)	66.4(1.8)	77.3(1.5)	75.2(1.2)	62.0(3.0)	50.3(7.1)
Traffic violation fact	1994	77.7(1.7)	77.1(2.6)	78.2(2.6)	78.2(2.3)	77.1(5.0)	***(***)
	1992	75.9(1.6)	72.7(2.7)	79.5(2.1)	76.6(1.6)	74.1(3.9)	77.8(6.3)
	1990	76.5(1.7)	73.8(2.3)	79.0(2.7)	76.4(1.9)	75.2(5.3)	73.4(4.8)
	1988	76.0(1.8)	74.1(2.9)	77.6(2.8)	78.0(2.3)	64.6(4.6)	77.4(6.6)
	1984	74.5(1.2)	73.6(1.4)	75.5(1.8)	77.2(1.3)	63.2(2.9)	67.9(3.2)
Cost of traffic fine	1994	60.1(2.7)	60.7(3.4)	59.5(3.0)	65.6(3.3)	41.7(4.9)	***(***)
	1992	67.2(1.9)	65.1(2.8)	69.6(2.9)	74.3(2.0)	46.8(5.2)	55.5(5.5)
	1990	64.7(2.4)	65.9(3.3)	63.5(3.3)	71.3(2.5)	43.3(5.2)	44.5(7.0)
	1988	60.3(2.6)	63.5(4.5)	57.5(3.9)	64.9(2.9)	47.0(7.3)	33.1(XXX)
	1984	64.8(1.6)	64.5(1.9)	65.0(1.9)	68.4(1.7)	50.6(3.9)	51.9(6.5)
Traffic fine payment fact	1994	50.3(2.3)	52.7(3.3)	47.7(3.1)	52.6(2.5)	44.6(7.0)	***(***)
	1992	48.7(2.3)	46.5(3.1)	51.1(3.4)	53.3(3.1)	39.3(5.0)	29.3(5.6)
	1990	49.3(1.9)	47.7(2.5)	50.8(3.0)	49.3(2.2)	43.4(4.2)	60.2(6.0)
	1988	46.7(2.1)	44.6(3.1)	48.4(3.6)	48.9(3.0)	41.1(4.4)	30.8(XXX)
	1984	43.9(1.3)	43.9(2.2)	43.9(1.3)	47.0(1.6)	28.7(1.9)	40.5(5.3)
Frozen pizza: reason produced	1994	64.4(2.3)	60.9(3.8)	68.2(2.5)	67.8(2.7)	53.3(7.6)	***(***)
	1992	70.5(2.1)	66.5(3.0)	75.0(2.6)	76.1(2.3)	46.0(4.2)	68.1(7.1)
	1990	74.5(1.8)	74.0(2.5)	75.0(2.2)	78.4(1.9)	60.2(5.3)	63.9(7.8)
	1988	71.2(2.2)	68.2(3.8)	73.8(3.1)	73.7(2.5)	65.5(4.4)	54.8(XXX)
	1984	72.4(1.4)	69.0(1.8)	75.9(1.6)	74.8(1.6)	64.6(3.2)	57.3(4.7)
Frozen pizza: Middle stage	1994	63.1(2.5)	58.0(3.7)	68.3(3.3)	66.1(2.3)	50.2(8.4)	***(***)
	1992	65.3(2.5)	61.2(3.3)	70.0(2.5)	70.2(2.7)	54.7(6.0)	45.6(6.9)
	1990	68.9(1.7)	65.6(3.0)	72.2(2.5)	71.0(2.0)	62.4(4.6)	59.5(5.5)
	1988	68.1(2.6)	61.7(4.0)	73.5(2.9)	71.9(3.1)	59.0(7.1)	38.3(7.4)
	1984	63.6(1.4)	58.9(2.1)	68.5(1.6)	65.6(1.7)	54.5(4.1)	55.0(6.5)
Frozen pizza: Ingredients used	1994	46.5(1.9)	42.7(3.0)	50.5(3.8)	51.4(2.4)	32.7(6.0)	***(***)
	1992	47.9(2.1)	46.5(2.6)	49.5(2.9)	52.8(2.6)	20.5(4.0)	49.6(7.5)
	1990	53.4(2.1)	49.4(3.4)	57.4(2.7)	55.7(2.4)	45.0(5.6)	43.7(5.0)
	1988	50.7(2.7)	47.9(3.3)	53.0(4.0)	52.7(3.5)	48.0(5.8)	26.1(6.6)
	1984	45.3(1.2)	38.5(1.6)	52.2(1.7)	48.4(1.3)	31.0(3.8)	25.5(2.9)
Purpose of business article	1994	68.9(2.0)	67.9(2.6)	69.9(3.4)	71.0(2.4)	60.5(5.0)	***(***)
	1992	67.6(2.7)	66.9(3.2)	68.2(3.3)	67.6(3.0)	66.5(5.1)	66.0(6.2)
	1990	69.8(1.6)	71.1(2.4)	68.4(2.5)	71.3(1.8)	63.4(4.5)	73.6(5.7)
	1988	72.5(2.6)	72.8(3.1)	72.1(3.2)	75.7(3.0)	57.5(6.0)	71.1(6.2)
	1984	66.2(0.8)	62.8(1.3)	69.6(1.2)	69.4(0.9)	54.2(2.4)	52.3(2.6)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

NAEP 1994 National Reading Trend Assessments — Age 17

Weighted percentage correct by subgroups across assessment years (continued)

ITEM DESCRIPTION	YEAR	NATION	MALE	FEMALE	WHITE	BLACK	HISPANIC
Identify business liability	1994	59.1(2.1)	56.7(3.4)	61.7(3.1)	63.7(2.6)	42.8(4.8)	***(***)
	1992	61.6(2.3)	59.5(3.7)	63.5(2.2)	65.4(2.9)	46.8(5.3)	43.4(8.2)
	1990	62.8(1.8)	60.0(2.7)	65.7(2.4)	64.4(2.0)	58.2(4.7)	53.4(8.7)
	1988	65.4(2.4)	64.8(2.5)	66.2(3.3)	69.5(2.9)	57.6(5.1)	39.2(8.9)
	1984	63.7(1.1)	61.1(0.9)	66.5(2.0)	68.5(1.2)	47.6(2.8)	46.2(2.6)
Define business profit	1994	92.5(1.0)	91.3(1.6)	93.7(1.5)	95.8(0.8)	79.7(4.4)	***(***)
	1992	92.2(1.2)	90.7(1.6)	93.6(1.5)	95.1(1.1)	81.6(4.9)	81.5(7.9)
	1990	93.4(0.9)	92.4(1.4)	94.5(1.4)	93.7(1.1)	95.0(2.4)	86.2(6.7)
	1988	95.2(1.0)	96.0(1.3)	94.4(1.6)	96.4(1.1)	90.5(3.0)	91.5(5.0)
	1984	93.2(0.4)	92.4(0.8)	93.9(0.7)	95.0(0.5)	87.1(2.0)	86.9(1.9)
Sioux story: Author's view	1994	65.9(2.3)	63.2(3.0)	68.6(3.4)	70.0(2.2)	53.0(8.8)	***(***)
	1992	66.6(1.8)	64.6(3.0)	68.4(2.4)	69.7(1.8)	57.2(5.5)	58.5(7.6)
	1990	64.2(2.3)	61.2(3.3)	67.2(3.1)	66.2(2.0)	55.3(6.1)	65.5(XXX)
	1988	69.1(2.4)	73.6(4.1)	65.2(2.7)	70.7(2.8)	70.4(3.9)	47.4(8.1)
	1984	69.5(0.8)	69.8(1.0)	69.1(1.1)	73.0(0.9)	53.1(2.1)	65.5(2.3)
Sioux story: Inference	1994	62.2(2.4)	63.5(3.6)	61.0(2.9)	66.4(2.3)	42.8(6.5)	***(***)
	1992	65.4(2.3)	63.3(3.6)	67.3(2.3)	69.3(2.6)	46.2(6.4)	58.9(6.9)
	1990	61.2(2.0)	62.7(3.1)	59.7(3.0)	65.9(2.2)	39.0(5.3)	63.9(9.5)
	1988	66.9(2.1)	71.0(3.4)	63.2(3.3)	71.4(2.2)	49.5(5.5)	59.4(7.6)
	1984	67.4(1.2)	68.8(1.2)	66.1(1.6)	72.3(1.2)	47.2(2.4)	54.0(5.1)
Sioux story: Major event	1994	57.2(2.4)	58.8(4.0)	55.8(3.2)	61.9(2.7)	34.6(5.6)	***(***)
	1992	59.5(2.1)	59.5(3.4)	59.5(2.7)	65.5(2.3)	34.0(6.8)	53.1(8.4)
	1990	61.0(2.1)	59.7(2.8)	62.4(3.2)	66.8(2.1)	39.1(5.6)	51.3(XXX)
	1988	62.5(2.4)	63.7(3.1)	61.7(3.7)	68.2(2.7)	44.8(4.9)	42.7(8.3)
	1984	63.4(1.0)	64.1(1.3)	62.6(1.5)	67.5(1.1)	43.0(3.2)	56.4(5.7)
Sioux story: Main purpose	1994	67.1(3.0)	62.7(4.7)	71.7(3.0)	71.9(3.4)	47.8(7.2)	***(***)
	1992	71.1(2.1)	68.4(3.5)	73.4(3.2)	76.1(2.1)	48.0(5.4)	66.0(8.1)
	1990	70.7(2.0)	66.8(3.2)	74.7(2.5)	73.6(2.2)	57.1(4.1)	72.6(8.8)
	1988	70.5(2.2)	74.8(3.5)	66.8(3.3)	75.1(2.4)	55.4(5.8)	50.9(6.6)
	1984	71.8(0.9)	72.2(1.2)	71.4(1.2)	76.4(0.8)	51.5(3.1)	57.3(4.4)

*** Sample size insufficient to permit a reliable estimate.

XXX The standard error exceeds 10.

The standard errors of the estimated percentages appear in parenthesis.

Data Appendix

Writing

NAEP 1994 Writing Long-Term Trend Assessment — Grade 4

Average writing scale scores across assessment years

Weighted percentages and average writing scale scores and jackknifed standard errors

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	100.0(0.0) 203.8(1.5)	100.0(0.0) 205.7(1.6)	100.0(0.0) 201.7(1.5)	100.0(0.0) 207.1(1.5)	100.0(0.0) 204.8(1.6)	N N
GENDER						
Male	53.3(1.7) 200.5(2.8)	50.4(1.0) 199.0(2.3)	51.2(1.0) 195.0(1.9)	50.4(0.6) 198.3(1.7)	50.3(0.9) 196.1(1.7)	N N
Female	46.7(1.7) 207.6(3.1)	49.6(1.0) 212.6(2.0)	48.8(1.0) 208.7(2.2)	49.6(0.6) 216.1(1.7)	49.7(0.9) 213.5(2.2)	N N
RACE/ETHNICITY						
White	70.9(1.0) 210.7(1.9)	70.0(0.3)* 214.9(1.9)	70.0(0.3)* 211.0(2.0)	70.8(0.3)* 216.7(1.7)	68.6(0.4)# 214.4(1.5)	N N
Black	14.6(0.9) 181.6(5.0)	15.5(0.2) 173.3(4.7)	15.3(0.3) 171.4(5.4)	15.6(0.2) 175.0(3.8)	15.2(0.3) 172.7(3.2)	N N
Hispanic	11.4(0.7) 188.5(5.8)	10.6(0.3)* 190.3(3.5)	10.8(0.2) 184.1(4.1)	9.9(0.2)* 189.4(3.6)	11.6(0.3) 188.5(3.1)	Q N
Other	3.0(0.5)* 208.2(6.1)	3.9(0.2)* 211.0(4.8)	3.8(0.1)* 201.7(7.0)	3.6(0.2)* 206.9(2.6)	4.6(0.2)# 209.1(3.7)	L N
MODAL AGE						
Less Than Modal Age	0.9(0.3) *** (***)	0.8(0.2) *** (***)	0.3(0.1) *** (***)	0.3(0.1) *** (***)	0.6(0.2) *** (***)	N N
At Modal Age	62.8(1.0) 211.6(2.5)	61.2(0.5) 209.8(2.5)	59.4(1.1) 205.1(2.7)	55.8(1.1)†* 212.0(1.5)	60.0(1.0) 208.2(1.6)	L N
Greater Than Modal Age	36.3(1.0) 190.3(4.5)	38.1(0.6) 198.7(2.0)	40.3(1.1)† 196.4(1.7)	43.9(1.1)†* 201.2(1.9)	39.4(1.0)# 200.2(3.0)	L L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 4

Average writing scale scores across assessment years

Weighted percentages and average writing scale scores and jackknifed standard errors
(continued)

	1984	1988	1990	1992	1994	TREND TESTS
REGION						
Northeast	20.1(0.7)	23.4(1.7)	22.1(1.0)	21.0(1.3)	21.1(1.1)	N
	212.4(4.0)	204.0(4.9)	211.1(3.6)	216.1(4.0)	209.7(4.0)	N
Southeast	24.9(1.5)	26.1(1.7)	24.4(1.2)	23.8(1.3)	24.7(1.8)	N
	203.5(3.3)	200.1(3.2)	192.3(4.0)	193.0(2.4)†	198.3(3.4)	N
Central	27.7(1.5)	22.9(0.5)†	24.8(0.7)	27.6(0.8)	25.0(1.2)	N
	200.8(2.6)	211.9(3.0)†	203.0(3.1)	213.9(3.1)†	209.0(3.3)#	L
West	27.3(0.9)	27.5(1.1)	28.8(0.8)	27.6(0.7)	29.3(1.0)	N
	200.8(4.9)	207.3(3.4)	201.2(2.7)	205.7(2.2)	203.1(2.7)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	6.7(0.6)*	5.3(0.7)	5.5(0.5)	4.6(0.4)†	4.4(0.4)#	L
	178.7(4.6)	194.2(5.4)	185.7(3.9)	191.2(3.2)	188.0(7.8)	N
Grad From H.S.	20.8(1.0)*	17.8(1.1)	18.2(0.9)	16.6(0.7)†	16.3(0.9)#	L
	191.8(3.4)	199.4(3.0)	196.6(3.0)	202.2(3.2)	202.0(2.3)#	L
Some Educ. After H.S.	4.6(0.4)	5.2(0.5)	4.8(0.4)	5.7(0.4)	5.3(0.5)	N
	208.0(6.5)	211.4(6.3)	213.9(4.0)	201.4(4.5)	212.2(4.0)	N
Grad from College	33.1(1.4)*	41.4(1.5)†	39.7(1.6)†	41.9(1.0)†	42.7(1.4)#	L
	218.1(3.0)	212.4(2.2)	209.0(1.6)†	213.7(1.4)	212.3(2.1)	N
Unknown	34.8(1.3)	30.3(1.4)	31.8(1.1)	31.2(1.0)	31.3(1.2)#	N
	202.8(2.5)	201.5(2.7)	196.5(2.2)	204.7(2.3)	197.3(1.9)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 4

Average writing scale scores across assessment years

Weighted percentages and average writing scale scores and jackknifed standard errors
(continued)

	1984	1988	1990	1992	1994	TREND TESTS
SCHOOL TYPE						
Public School	85.8(1.9)	87.5(3.0)	91.8(1.8)	88.0(1.7)	89.9(2.0)	N
	201.9(1.8)	204.2(2.0)	200.4(1.4)	205.2(1.6)	203.9(1.8)	N
Non-Public	14.2(1.9)	12.5(3.0)	8.2(1.8)	12.0(1.7)	10.1(2.0)	N
	215.4(4.6)	216.0(4.1)	216.2(5.7)	221.6(3.3)	212.6(4.3)	N
QUARTILES						
Upper	25.1(1.2)	25.0(1.4)	25.0(0.8)	25.0(0.8)	25.2(0.9)	N
	240.5(2.3)	246.7(1.7)	242.1(1.6)	245.7(1.3)	241.8(1.3)	Q
Middle Two	50.1(1.5)	50.0(1.0)	50.0(1.1)	49.9(1.0)	49.9(1.0)	N
	204.2(1.4)	206.9(1.5)	203.1(1.5)	208.2(1.7)	206.3(1.2)	N
Lower	24.8(1.6)	25.0(1.2)	25.0(1.3)	25.0(0.8)	24.9(1.1)	N
	165.9(2.6)	162.3(1.8)	158.4(2.4)	166.5(1.4)	164.3(2.7)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 8

Average writing scale scores across assessment years

Weighted percentages and average writing scale scores and jackknifed standard errors

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	100.0(0.0) 266.7(2.0)	100.0(0.0) 263.7(1.3)	100.0(0.0) 256.6(1.2)†*	100.0(0.0) 274.4(1.3)†*	100.0(0.0) 265.3(1.3)	N Q
GENDER						
Male	50.7(1.2) 257.5(2.3)	49.4(1.1) 253.7(1.5)	50.5(0.9) 245.6(1.5)†*	49.5(0.8) 263.6(1.9)*	52.1(0.9) 254.0(1.8)	N Q
Female	49.3(1.2) 276.2(2.4)	50.6(1.1) 273.5(1.7)	49.5(0.9) 267.9(1.3)†*	50.5(0.8) 285.0(1.3)†*	47.9(0.9) 277.7(1.4)	N Q
RACE/ETHNICITY						
White	75.7(0.9)* 271.7(2.1)	70.6(0.2)†* 269.1(1.3)	70.2(0.2)† 262.1(1.6)†*	70.3(0.3)† 279.2(1.3)†*	69.5(0.2)# 272.0(1.4)	LQ Q
Black	12.4(0.6)* 247.1(5.7)	14.9(0.2)† 246.0(3.5)	15.1(0.2)† 239.0(2.3)	15.5(0.1)† 258.1(4.0)*	15.2(0.2)# 244.8(3.4)	LQ N
Hispanic	8.1(0.7)* 246.9(6.4)	10.3(0.1)† 250.4(2.5)	10.3(0.2)† 245.7(2.8)	10.2(0.2)† 265.0(2.2)†*	10.5(0.2)# 251.5(3.3)	LQ N
Other	3.8(0.4)* 272.5(4.3)	4.2(0.1)* 268.9(2.9)	4.4(0.1)* 255.4(2.9)†	4.0(0.1)* 275.5(4.8)	4.8(0.1)# 263.5(3.4)	L N
MODAL AGE						
Less Than Modal Age	1.0(0.3) *** (***)	1.0(0.2) *** (***)	0.7(0.2) *** (***)	0.9(0.2) *** (***)	0.6(0.2) *** (***)	N L
At Modal Age	63.7(1.4)* 272.1(1.8)	58.9(0.2)† 270.6(1.2)	59.4(0.3)†* 261.8(1.5)†*	58.1(1.2)† 282.1(1.3)†*	56.8(1.0)# 272.4(1.2)	L LQ
Greater Than Modal Age	35.3(1.4)* 257.7(3.2)	40.1(0.3)† 253.8(1.9)	39.9(0.3)† 248.0(1.7)†*	41.0(1.2)† 263.1(1.8)*	42.5(1.0)# 255.7(2.4)	L N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 8

Average writing scale scores across assessment years

Weighted percentages and average writing scale scores and jackknifed standard errors
(continued)

	1984	1988	1990	1992	1994	TREND TESTS
REGION						
Northeast	23.4(1.0)	22.8(2.2)	22.8(1.0)	20.9(1.0)	20.7(0.7)#	L
	273.3(3.6)	265.1(2.7)*	261.4(3.3)*	284.7(3.3)	276.6(2.2)	LQ
Southeast	23.4(1.7)	23.7(1.3)	24.6(1.1)	24.6(1.5)	23.3(1.8)	N
	266.9(3.6)	268.2(2.3)*	251.8(2.8)†	266.3(2.2)	258.9(2.1)	N
Central	26.9(1.6)	25.9(2.2)	23.2(0.7)	25.0(1.0)	25.7(1.6)	N
	263.8(2.3)	258.1(2.2)	259.1(3.9)	277.2(2.0)†	269.5(4.1)	L
West	26.3(0.8)*	27.6(1.1)	29.4(1.0)	29.4(1.2)	30.3(1.2)#	L
	263.5(3.0)	264.0(2.1)	255.0(2.6)	271.3(2.3)*	259.0(1.6)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	10.1(0.8)*	8.5(0.7)	7.6(0.6)	7.0(0.8)†	7.0(0.4)#	L
	257.7(4.8)	254.3(3.9)	245.6(3.7)	257.9(5.3)	250.1(4.1)	N
Grad From H.S.	35.1(1.3)*	31.5(1.2)	32.8(1.1)*	28.9(1.1)†	27.0(1.4)#	L
	260.8(1.6)	257.6(2.1)	252.5(1.4)†	267.9(1.6)†*	258.6(2.2)	N
Some Educ. After H.S.	9.6(0.8)	10.8(0.6)	11.7(0.7)	12.4(0.7)†	11.9(0.7)#	L
	271.4(3.9)	275.1(3.3)	266.9(3.0)	279.6(2.2)	270.3(3.1)	N
Grad from College	36.2(1.5)*	41.2(1.5)	38.2(1.5)*	44.0(1.8)†	46.2(1.6)#	L
	277.8(1.8)	270.5(1.8)†	264.9(1.8)†*	284.3(1.9)*	275.0(1.3)	Q
Unknown	9.0(0.8)	8.0(0.5)	9.6(0.6)	7.8(0.6)	7.9(0.6)	N
	249.2(6.7)	248.3(2.3)	235.1(2.8)	249.6(3.1)	239.7(2.8)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 8

Average writing scale scores across assessment years

Weighted percentages and average writing scale scores and jackknifed standard errors
(continued)

	1984	1988	1990	1992	1994	TREND TESTS
SCHOOL TYPE						
Public School	86.9(1.6)	88.1(2.7)	87.1(1.9)	86.9(2.0)	89.1(1.6)	N
	264.4(2.0)	262.1(1.5)	253.6(1.2)†*	272.4(1.3)†*	263.6(1.6)	Q
Non-Public	13.1(1.6)	11.9(2.7)	12.9(1.9)	13.1(2.0)	10.9(1.6)	N
	281.8(5.5)	275.5(3.0)	276.7(4.4)	287.6(3.2)	279.3(3.8)	N
QUARTILES						
Upper	25.0(1.4)	25.0(1.2)	25.0(1.2)	25.0(1.1)	25.1(1.1)	N
	297.1(1.4)	295.5(1.3)*	294.2(1.1)*	310.6(1.0)†*	301.2(1.4)#	LQ
Middle Two	49.8(1.7)	50.0(1.1)	50.0(1.0)	50.1(1.0)	49.7(0.9)	N
	268.3(2.4)	264.5(1.0)	256.6(1.0)†*	275.1(1.4)*	266.6(1.3)	Q
Lower	25.2(1.3)	25.0(1.1)	25.0(0.9)	24.9(1.0)	25.2(0.9)	N
	233.2(3.2)	230.5(1.8)	219.1(1.5)†*	236.8(2.1)*	227.2(1.8)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 11

Average writing scale scores across assessment years

Weighted percentages and average writing scale scores and jackknifed standard errors

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	100.0(0.0) 289.7(1.6)*	100.0(0.0) 291.3(1.3)*	100.0(0.0) 287.1(1.0)	100.0(0.0) 287.3(1.4)	100.0(0.0) 284.6(1.2)#	N L
GENDER						
Male	50.7(1.6) 281.1(1.4)	46.9(1.5) 282.2(2.0)*	50.9(0.8) 276.4(1.6)	53.1(1.1) 279.4(1.2)	48.5(1.7) 275.9(1.5)#	N L
Female	49.3(1.6) 298.6(2.5)	53.1(1.5) 299.3(1.2)*	49.1(0.8) 298.2(1.5)*	46.9(1.1) 296.4(2.0)	51.5(1.7) 292.8(1.5)#	N N
RACE/ETHNICITY						
White	74.7(1.1)* 296.8(1.8)*	73.7(0.1)* 296.2(1.3)*	71.2(0.2)†* 292.8(1.2)	71.2(0.2)†* 294.1(1.2)	68.3(0.3)# 290.8(1.4)#	L L
Black	14.6(1.0) 270.3(3.6)	14.9(0.1) 275.2(2.9)	15.5(0.2)* 268.2(2.3)	13.9(0.2)* 263.2(3.2)	14.7(0.2) 267.3(2.2)	N N
Hispanic	7.9(0.6)* 259.1(6.6)	8.0(0.1)* 273.8(4.4)	8.7(0.1)* 276.9(2.6)†	10.6(0.2)†* 273.6(3.8)	11.9(0.2)# 271.3(4.0)	LQ Q
Other	2.8(0.3)* 288.6(5.8)	3.4(0.1)* 295.5(3.7)*	4.5(0.0)†* 282.3(5.5)	4.4(0.2)†* 287.1(3.0)	5.1(0.1)# 283.2(3.3)	L N
MODAL AGE						
Less Than Modal Age	13.2(1.3) 294.5(3.8)	11.3(0.8) 299.3(2.1)	11.2(0.7) 295.3(4.3)	9.7(0.8) 294.8(4.0)	10.8(0.9) 290.8(3.2)	L N
At Modal Age	67.1(1.2)* 295.5(1.4)*	67.5(0.2)* 296.8(1.2)*	63.9(0.2)† 292.4(1.1)	64.4(0.2) 293.4(1.7)	63.7(0.3)# 289.8(0.9)#	L L
Greater Than Modal Age	19.6(1.5)* 266.8(3.1)	21.2(0.7)* 269.5(4.5)	24.9(0.7)† 269.9(2.0)	26.0(0.9)† 269.4(2.0)	25.5(0.9)# 269.1(3.4)	L N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 11

Average writing scale scores across assessment years

Weighted percentages and average writing scale scores and jackknifed standard errors
(continued)

	1984	1988	1990	1992	1994	TREND TESTS
REGION						
Northeast	26.4(0.8)*	22.6(0.8)†	22.1(1.0)†	22.0(0.9)†	22.2(0.8)#	LQ
	290.9(3.0)	295.0(2.8)	295.4(2.5)	290.2(2.3)	290.8(2.4)	N
Southeast	21.8(1.7)	22.0(1.0)	23.4(0.9)	23.6(1.4)	22.9(1.3)	N
	287.3(4.9)	289.4(2.2)*	280.0(2.3)	277.8(3.3)	277.3(2.5)	L
Central	27.1(1.6)	27.1(1.7)	26.8(1.1)	25.8(1.1)	26.2(1.4)	N
	291.3(2.7)	291.8(4.0)	288.8(2.7)	291.4(2.2)	283.6(2.3)#	N
West	24.8(0.8)*	28.2(1.1)†	27.7(0.9)	28.7(1.0)†	28.6(1.0)#	L
	288.8(3.7)	289.2(2.3)	284.8(2.1)	289.4(2.1)	286.6(2.7)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	10.9(1.2)	8.2(0.8)	8.5(0.5)	8.2(0.8)	7.5(0.7)#	L
	273.6(5.2)	275.8(3.5)	268.0(4.0)	271.0(3.7)	268.5(4.7)	N
Grad From H.S.	35.2(2.1)*	30.4(1.2)*	29.6(1.1)	26.8(0.9)†	25.9(1.1)#	L
	283.5(3.0)	284.6(2.2)	278.2(1.9)	278.4(2.2)	279.2(1.7)	N
Some Educ. After H.S.	15.1(0.9)*	17.7(0.8)	18.5(0.6)†	19.7(0.8)†	19.8(1.0)#	L
	297.6(2.5)*	296.1(2.6)*	292.2(2.7)	292.3(2.0)	286.2(1.7)#	L
Grad from College	35.9(1.7)*	41.0(1.8)	40.5(1.4)	42.6(1.4)†	43.7(1.9)#	L
	299.9(2.4)*	299.0(2.0)*	297.5(2.0)	295.7(1.4)	292.6(1.5)#	L
Unknown	2.9(0.5)	2.7(0.3)	3.0(0.3)	2.7(0.3)	3.0(0.2)	N
	*** (***)	267.6(4.7)*	259.0(4.1)	259.1(6.6)	250.6(3.2)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 11

Average writing scale scores across assessment years

Weighted percentages and average writing scale scores and jackknifed standard errors
(continued)

	1984	1988	1990	1992	1994	TREND TESTS
SCHOOL TYPE						
Public School	89.4(1.5)	86.0(3.8)	92.0(1.7)	90.6(2.2)	88.2(2.2)	N
	287.8(1.6)	289.9(1.2)*	285.5(1.1)	286.5(1.6)	283.8(1.4)	L
Non-Public	10.6(1.5)	14.0(3.8)	8.0(1.7)	9.4(2.2)	11.8(2.2)	N
	305.4(3.7)*	299.7(3.6)	305.8(5.2)	295.4(4.4)	290.6(3.8)#	L
QUARTILES						
Upper	24.9(1.4)	24.9(1.4)	25.0(0.8)	24.9(1.0)	25.1(1.0)	N
	321.7(1.9)	319.8(1.0)	324.5(1.6)*	319.1(2.0)	318.9(1.3)	N
Middle Two	50.1(1.3)	50.2(1.1)	49.9(0.8)	50.2(1.1)	49.8(1.2)	N
	291.3(1.2)*	292.6(1.2)*	287.1(0.8)†	288.7(1.1)	285.2(1.1)#	L
Lower	24.9(1.4)	24.9(1.2)	25.0(0.9)	25.0(1.1)	25.1(1.2)	N
	254.5(2.0)	260.0(2.4)*	249.8(2.1)	253.1(1.5)	249.1(1.8)#	L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 4

Average writing scale scores across assessment years

Weighted percentages of observations with average writing scale scores at or above 150

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	92.6(1.3)	90.5(0.8)	88.8(1.1)	92.7(0.5)	91.8(0.9)	Q
GENDER						
Male	91.6(1.8)	87.9(1.2)	85.9(1.7)	89.8(0.9)	88.5(1.2)	N
Female	93.8(1.8)	93.1(1.1)	91.9(1.2)	95.7(0.8)	95.1(1.0)	N
RACE/ETHNICITY						
White	96.1(1.1)	95.4(1.1)	94.0(0.9)	96.9(0.3)	96.4(0.7)	N
Black	81.3(3.1)	72.9(4.4)	70.5(4.8)	76.8(2.9)	74.7(2.7)	N
Hispanic	84.3(6.3)	83.3(3.2)	81.2(2.7)	87.0(3.2)	85.7(2.4)	N
Other	96.4(2.4)	92.4(2.6)	89.1(7.1)	94.0(2.9)	94.1(1.9)	N
MODAL AGE						
Less Than Modal Age	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	N
At Modal Age	96.2(0.5)*	92.4(0.9)†	90.3(1.7)†	94.8(0.5)	93.4(0.7)#	LQ
Greater Than Modal Age	86.4(3.4)	87.3(1.6)	86.6(1.4)	90.2(1.1)	89.5(2.2)	N
REGION						
Northeast	96.8(1.6)	89.2(2.3)†	92.6(2.4)	95.6(1.1)	93.4(2.0)	N
Southeast	91.9(1.3)	87.8(2.2)	82.8(3.0)†	85.9(1.5)†	88.5(1.7)	LQ
Central	92.9(1.7)	94.5(2.0)	90.7(1.6)	95.4(1.3)	93.4(1.8)	N
West	90.0(3.9)	90.7(1.6)	89.4(1.6)	93.6(1.0)	92.0(1.7)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	78.5(6.6)	86.4(6.0)	80.9(4.5)	85.0(2.5)	83.7(5.3)	N
Grad From H.S.	88.9(3.2)	88.0(1.9)	86.9(1.9)	91.3(1.5)	92.1(1.8)	N
Some Educ. After H.S.	96.9(1.7)	93.3(3.7)	92.8(4.6)	92.4(2.3)	95.2(1.9)	N
Grad from College	96.5(1.3)	92.4(1.2)	91.9(1.0)†	94.6(0.9)	94.2(1.0)	Q
Unknown	94.0(1.2)	89.6(1.3)†	87.0(2.2)†	92.4(1.0)	89.0(2.0)#	N
SCHOOL TYPE						
Public School	92.0(1.3)	89.8(1.0)	88.1(1.2)	92.0(0.6)	91.4(1.1)	Q
Non-Public	96.5(1.7)	95.3(1.7)	96.4(2.1)	98.0(1.0)	95.4(1.6)	N
QUARTILES						
Upper	100.0(0.0)	100.0(0.0)	99.9(0.1)	100.0(0.0)	100.0(0.1)	N
Middle Two	98.7(0.5)	97.2(0.6)	96.9(0.8)	98.8(0.3)	98.6(0.4)	Q
Lower	72.9(4.5)	67.6(2.5)	61.7(3.6)	73.1(1.8)	69.8(3.2)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 4

Average writing scale scores across assessment years

Weighted percentages of observations with average writing scale scores at or above 200

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	54.4(2.0)	56.1(2.0)	52.7(1.7)	58.4(1.9)	56.3(2.0)	N
GENDER						
Male	50.1(4.1)	49.5(2.6)	46.3(2.2)	49.6(2.0)	47.2(2.5)	N
Female	59.4(3.0)	62.9(2.7)	59.4(2.7)	67.4(2.4)	65.5(2.4)	N
RACE/ETHNICITY						
White	62.2(2.1)	65.2(2.0)	61.8(2.3)	69.1(2.3)	66.8(2.0)	L
Black	29.3(6.9)	24.7(4.4)	24.0(5.0)	23.6(3.4)	21.5(3.9)	N
Hispanic	37.2(5.8)	40.6(4.3)	34.3(4.8)	37.6(4.1)	37.6(4.2)	N
Other	58.3(10.1)	61.4(4.8)	52.2(7.1)	57.7(3.8)	61.6(4.8)	N
MODAL AGE						
Less Than Modal Age	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	N
At Modal Age	62.8(3.3)	60.4(2.6)	56.1(2.6)	63.3(2.1)	59.9(2.3)	N
Greater Than Modal Age	40.0(4.7)	49.1(2.5)	47.4(2.1)	52.4(2.3)	51.5(2.9)#	L
REGION						
Northeast	64.2(4.7)	54.3(4.4)	62.4(4.0)	67.1(4.2)	60.9(4.5)	N
Southeast	54.8(4.6)	51.2(3.9)	44.1(3.9)	43.7(2.9)	49.4(4.3)	N
Central	50.0(3.4)	61.1(3.7)	54.2(3.2)	66.3(3.2)†	61.5(4.6)#	L
West	51.5(6.1)	58.3(3.8)	51.1(3.3)	56.7(2.8)	54.3(3.3)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	29.1(9.9)	43.7(6.5)	36.8(3.5)	41.2(5.0)	38.0(8.6)	N
Grad From H.S.	41.4(4.0)	50.1(4.0)	48.3(4.1)	53.7(4.1)	53.3(3.2)#	L
Some Educ. After H.S.	60.7(9.7)	63.3(7.2)	63.1(5.1)	52.4(4.8)	64.9(5.4)	N
Grad from College	69.3(3.5)	62.7(1.9)	59.9(2.2)	65.2(1.5)	63.9(2.2)	N
Unknown	53.3(3.2)	51.9(3.2)	47.4(2.3)	55.8(3.9)	48.7(2.7)	N
SCHOOL TYPE						
Public School	52.4(2.5)	54.7(2.2)	51.4(1.6)	56.3(2.0)	55.4(2.4)	N
Non-Public	66.4(7.3)	66.2(4.9)	66.6(5.3)	74.1(3.9)	63.8(5.3)	N
QUARTILES						
Upper	94.8(1.6)	95.1(1.5)	92.9(1.5)	96.8(0.9)	95.2(1.5)	N
Middle Two	56.7(2.5)	59.6(2.8)	54.6(1.9)	62.9(3.0)	59.6(2.3)	N
Lower	9.0(2.1)	10.3(2.2)	8.6(2.6)	11.0(1.3)	10.2(2.3)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 4

Average writing scale scores across assessment years

Weighted percentages of observations with average writing scale scores at or above 250

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	10.1(1.0)	14.6(1.1)†	12.2(0.9)	13.0(1.1)	11.7(0.8)	Q
GENDER						
Male	8.6(1.3)	10.9(1.3)	8.9(0.9)	8.1(1.1)	7.1(1.1)	N
Female	11.9(2.6)	18.5(1.4)	15.6(1.4)	17.9(1.4)	16.3(1.4)	N
RACE/ETHNICITY						
White	12.5(1.1)	18.5(1.5)†	15.5(1.3)	16.9(1.5)	15.1(1.0)	Q
Black	2.5(2.2)	2.5(1.1)	2.5(1.5)	1.0(0.7)	1.5(0.7)	N
Hispanic	4.7(2.3)	6.5(1.5)	4.6(1.3)	4.3(1.2)	3.9(1.6)	N
Other	10.9(5.2)	16.4(5.0)	12.0(3.8)	11.5(3.0)	13.5(4.0)	N
MODAL AGE						
Less Than Modal Age	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	N
At Modal Age	12.8(2.0)	16.4(1.6)	13.6(1.5)	15.4(1.3)	12.8(1.2)	N
Greater Than Modal Age	5.5(1.7)	11.5(1.1)†	9.9(1.2)	10.0(1.5)	10.1(1.5)#	Q
REGION						
Northeast	12.4(3.9)	15.0(2.8)	16.7(1.9)	18.9(3.0)	14.6(1.9)	N
Southeast	9.7(3.3)	11.9(1.5)	9.3(1.4)	7.2(1.2)	9.4(1.5)	N
Central	8.3(2.0)	17.1(2.1)†	11.1(2.3)	16.0(2.4)	13.8(2.2)	N
West	10.7(2.9)	14.9(2.7)	12.0(1.3)	10.6(1.4)	9.7(1.5)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	1.2(1.4)	8.1(4.4)	5.3(2.8)	5.6(3.2)	5.7(2.9)	N
Grad From H.S.	4.2(2.4)	11.3(1.9)	8.4(2.5)	9.7(2.3)	9.2(2.2)	N
Some Educ. After H.S.	9.7(7.5)	16.9(6.1)	21.7(3.5)	8.0(2.8)	14.8(4.9)	N
Grad from College	19.2(2.7)	18.7(1.8)	15.8(1.1)	17.3(1.1)	15.8(1.8)	N
Unknown	7.1(1.8)	11.8(1.9)	9.6(1.2)	11.1(1.8)	7.8(1.1)	Q
SCHOOL TYPE						
Public School	9.2(1.1)	13.9(1.2)†	11.6(0.8)	12.0(1.2)	11.4(0.9)	Q
Non-Public	16.0(3.9)	19.8(3.8)	18.0(4.7)	20.5(2.8)	14.7(3.6)	N
QUARTILES						
Upper	34.5(3.7)	44.5(2.4)	38.2(2.7)	41.9(2.1)	37.5(2.0)	Q
Middle Two	3.0(1.0)	7.0(1.2)	5.1(0.6)	5.0(1.3)	4.4(0.9)	Q
Lower	0.0(0.0)	0.1(0.2)	0.2(0.2)	0.0(0.1)	0.1(0.1)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 4

Average writing scale scores across assessment years

Weighted percentages of observations with average writing scale scores at or above 300

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	0.5(0.4)	0.8(0.2)	0.5(0.1)	0.5(0.2)	0.4(0.2)	N
GENDER						
Male	0.4(0.7)	0.4(0.2)	0.3(0.1)	0.2(0.1)	0.1(0.1)	N
Female	0.5(0.3)	1.2(0.4)	0.8(0.2)	0.8(0.3)	0.6(0.3)	N
RACE/ETHNICITY						
White	0.5(0.5)	1.1(0.3)	0.7(0.2)	0.6(0.2)	0.5(0.2)	N
Black	0.0(0.0)	0.1(0.1)	0.1(0.2)	0.0(0.1)	0.0(0.0)	N
Hispanic	0.5(0.9)	0.2(0.2)	0.2(0.2)	0.0(0.1)	0.1(0.2)	N
Other	0.6(1.4)	0.6(1.5)	0.2(0.3)	0.4(0.6)	0.4(0.4)	N
MODAL AGE						
Less Than Modal Age	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	N
At Modal Age	0.7(0.6)	0.9(0.3)	0.6(0.1)	0.7(0.3)	0.5(0.2)	N
Greater Than Modal Age	0.1(0.2)	0.6(0.4)	0.4(0.2)	0.2(0.2)	0.2(0.2)	N
REGION						
Northeast	0.4(0.4)	0.7(0.6)	0.8(0.3)	1.1(0.7)	0.6(0.6)	N
Southeast	0.6(1.2)	0.8(0.3)	0.4(0.4)	0.1(0.1)	0.2(0.3)	N
Central	0.4(0.5)	0.7(0.2)	0.4(0.3)	0.5(0.2)	0.4(0.4)	N
West	0.4(0.6)	0.9(0.6)	0.5(0.3)	0.3(0.2)	0.3(0.2)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	0.0(0.0)	0.6(0.6)	0.3(0.7)	0.1(0.2)	0.3(1.3)	N
Grad From H.S.	0.0(0.0)	0.4(0.3)	0.4(0.3)	0.2(0.3)	0.2(0.3)	N
Some Educ. After H.S.	0.0(0.0)	2.4(1.9)	1.3(1.5)	0.3(0.3)	0.3(0.8)	N
Grad from College	1.2(1.2)	1.1(0.3)	0.8(0.2)	0.8(0.3)	0.6(0.3)	N
Unknown	0.2(0.4)	0.4(0.3)	0.2(0.2)	0.2(0.2)	0.1(0.1)	N
SCHOOL TYPE						
Public School	0.3(0.3)	0.8(0.2)	0.5(0.1)	0.5(0.1)	0.3(0.1)	N
Non-Public	1.3(1.8)	1.0(0.7)	0.4(0.6)	0.6(0.6)	0.8(1.0)	N
QUARTILES						
Upper	1.8(1.7)	3.0(0.7)	2.0(0.5)	1.9(0.7)	1.4(0.6)	N
Middle Two	0.0(0.0)	0.1(0.1)	0.0(0.1)	0.0(0.0)	0.0(0.1)	N
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 4

Average writing scale scores across assessment years

Weighted percentages of observations with average writing scale scores at or above 350

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
GENDER						
Male	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.0(0.0)	0.0(0.0)	N
Female	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
RACE/ETHNICITY						
White	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Black	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Hispanic	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Other	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
MODAL AGE						
Less Than Modal Age	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	N
At Modal Age	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.0(0.0)	0.0(0.0)	N
Greater Than Modal Age	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
REGION						
Northeast	0.0(0.0)	0.0(0.0)	0.1(0.1)	0.0(0.0)	0.0(0.0)	N
Southeast	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Central	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
West	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Grad From H.S.	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.0(0.0)	0.0(0.0)	N
Some Educ. After H.S.	0.0(0.0)	0.1(0.2)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Grad from College	0.0(0.0)	0.0(0.0)	0.0(0.1)	0.0(0.0)	0.0(0.0)	N
Unknown	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
SCHOOL TYPE						
Public School	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Non-Public	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
QUARTILES						
Upper	0.0(0.0)	0.0(0.0)	0.1(0.1)	0.0(0.0)	0.0(0.0)	N
Middle Two	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 8

Average writing scale scores across assessment years

Weighted percentages of observations with average writing scale scores at or above 150

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL						
GENDER						
Male	100.0(0.0)	99.9(0.1)	99.6(0.2)	99.9(0.2)	99.9(0.2)	N
Female	100.0(0.0)	100.0(0.0)	99.9(0.1)	100.0(0.0)	100.0(0.1)	N
RACE/ETHNICITY						
White	100.0(0.0)	100.0(0.0)	99.9(0.1)	100.0(0.0)	100.0(0.1)	N
Black	100.0(0.0)	99.9(0.2)	99.3(0.5)	99.7(0.4)	99.8(0.5)	N
Hispanic	100.0(0.0)	99.8(0.3)	99.6(0.5)	99.9(0.4)	99.7(0.3)	N
Other	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	99.9(0.2)	N
MODAL AGE						
Less Than Modal Age	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	N
At Modal Age	100.0(0.0)	100.0(0.0)	99.9(0.1)	100.0(0.1)	100.0(0.1)	N
Greater Than Modal Age	100.0(0.0)	99.9(0.1)	99.7(0.2)	99.9(0.1)	99.9(0.2)	N
REGION						
Northeast	100.0(0.0)	100.0(0.0)	99.9(0.1)	100.0(0.0)	100.0(0.0)	N
Southeast	100.0(0.0)	99.9(0.2)	99.6(0.4)	99.9(0.3)	99.9(0.2)	N
Central	100.0(0.0)	100.0(0.0)	99.9(0.1)	100.0(0.0)	99.9(0.4)	N
West	100.0(0.0)	99.9(0.1)	99.7(0.2)	99.9(0.2)	99.9(0.1)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	100.0(0.0)	100.0(0.1)	99.5(0.4)	99.8(0.4)	99.8(0.2)	N
Grad From H.S.	100.0(0.0)	99.9(0.1)	99.7(0.2)	100.0(0.1)	100.0(0.2)	N
Some Educ. After H.S.	100.0(0.0)	100.0(0.0)	99.9(0.3)	100.0(0.0)	100.0(0.0)	N
Grad from College	100.0(0.0)	100.0(0.0)	99.9(0.1)	100.0(0.1)	100.0(0.0)	N
Unknown	100.0(0.0)	99.7(0.4)	99.4(0.6)	99.6(0.4)	99.4(0.7)	N
SCHOOL TYPE						
Public School	100.0(0.0)	99.9(0.1)	99.7(0.1)†	99.9(0.1)	99.9(0.1)	N
Non-Public	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
QUARTILES						
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Lower	100.0(0.0)	99.8(0.2)	99.1(0.3)†	99.8(0.3)	99.7(0.4)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 8

Average writing scale scores across assessment years

Weighted percentages of observations with average writing scale scores at or above 200

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	98.3(0.9)	97.2(0.6)	93.3(0.6)†*	97.7(0.4)	95.9(0.6)#	LQ
GENDER						
Male	97.2(1.2)	95.4(1.0)	89.6(1.0)†*	96.3(0.7)	93.4(1.1)#	LQ
Female	99.5(0.7)	98.9(0.3)	97.0(0.7)†	99.1(0.5)	98.7(0.4)	N
RACE/ETHNICITY						
White	99.3(0.4)	98.5(0.3)	95.6(0.6)†*	98.6(0.4)	97.8(0.5)#	LQ
Black	95.2(3.4)	92.2(2.2)	85.5(2.4)	94.7(2.2)	90.1(2.6)	N
Hispanic	92.9(6.1)	94.8(1.9)	89.3(2.2)	96.4(2.3)	92.1(2.0)	N
Other	99.7(0.8)	98.7(0.9)	92.3(1.7)†	98.6(1.1)	96.4(1.5)	L
MODAL AGE						
Less Than Modal Age	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	N
At Modal Age	99.2(0.5)	98.6(0.3)	95.6(0.5)†*	98.7(0.4)	97.7(0.4)#	LQ
Greater Than Modal Age	96.9(1.6)	95.1(1.3)	89.7(1.3)†	96.4(0.9)	93.6(1.3)	N
REGION						
Northeast	99.2(0.7)	97.9(0.7)	95.2(1.5)	98.7(0.6)	98.4(0.6)	Q
Southeast	97.9(1.9)	97.3(1.4)	90.5(1.6)†	96.8(1.1)	95.0(1.2)	N
Central	98.8(0.6)	95.8(1.0)	94.6(1.8)	98.5(0.6)	96.3(1.7)	N
West	97.4(1.8)	97.6(0.7)*	93.1(0.7)	97.3(1.0)	94.6(0.9)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	96.3(3.2)	95.1(2.5)	90.8(2.7)	95.9(2.8)	91.0(2.0)	N
Grad From H.S.	98.4(1.0)	96.1(1.0)	93.2(1.0)†	97.7(0.6)	95.0(1.4)	N
Some Educ. After H.S.	98.8(1.2)	98.8(0.8)	95.9(1.1)	98.6(1.0)	97.7(1.1)	N
Grad from College	99.6(0.3)	98.6(0.5)	95.7(1.1)†	98.9(0.5)	98.4(0.5)#	LQ
Unknown	94.4(3.1)	94.0(1.7)	83.3(2.7)†	92.1(2.0)	87.7(2.8)	N
SCHOOL TYPE						
Public School	98.1(1.0)	96.9(0.6)	92.6(0.7)†*	97.6(0.5)	95.6(0.7)#	Q
Non-Public	99.8(0.6)	99.3(0.3)	97.9(0.9)	98.9(1.0)	98.9(1.0)	N
QUARTILES						
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	100.0(0.0)	99.8(0.2)	98.7(0.3)†*	99.9(0.2)	99.7(0.2)	Q
Lower	93.3(3.4)	89.0(2.3)	75.8(2.1)†*	91.1(1.8)	84.4(2.3)#	LQ

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 8

Average writing scale scores across assessment years

Weighted percentages of observations with average writing scale scores at or above 250

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	72.4(2.6)	67.1(1.7)	57.0(1.5)†*	75.0(1.4)*	67.2(1.3)	Q
GENDER						
Male	61.2(3.7)	55.5(2.1)	45.0(2.2)†*	65.7(2.5)*	55.7(2.3)	Q
Female	83.9(2.6)	78.4(2.2)	69.3(1.6)†*	84.0(1.6)	79.8(1.6)	Q
RACE/ETHNICITY						
White	78.9(2.6)	73.5(1.6)	63.0(1.8)†*	79.7(1.5)	74.8(1.5)	Q
Black	47.5(9.2)	45.3(5.0)	37.4(2.7)	58.3(4.3)*	43.3(4.1)	N
Hispanic	46.6(8.7)	52.3(4.1)	45.3(4.0)	67.4(3.7)*	52.0(3.9)	N
Other	78.9(5.3)	73.1(4.5)	55.5(4.2)†	75.4(5.9)	66.7(5.0)	N
MODAL AGE						
Less Than Modal Age	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	L
At Modal Age	79.2(2.5)	75.1(1.8)	63.0(1.6)†*	82.0(1.5)*	74.9(1.3)	Q
Greater Than Modal Age	60.9(4.4)	55.4(2.2)	47.4(2.2)†	64.7(1.8)	56.7(3.0)	N
REGION						
Northeast	80.2(5.4)	68.5(3.9)	62.2(2.9)†*	83.3(2.6)	78.9(2.1)	Q
Southeast	72.2(4.5)	71.7(2.4)*	52.2(3.1)†	67.5(3.1)	60.4(2.3)#	L
Central	69.9(3.1)	60.6(3.3)	59.8(4.1)	78.4(2.2)	71.5(4.6)	Q
West	68.1(4.0)	68.0(2.8)	54.8(3.4)†	72.3(2.8)*	60.7(1.7)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	61.8(6.6)	56.4(5.2)	45.1(3.7)	59.8(6.5)	52.0(6.4)	N
Grad From H.S.	66.3(3.1)	60.2(3.0)	52.6(2.2)†	69.7(2.7)*	59.5(2.7)	N
Some Educ. After H.S.	79.4(5.3)	79.4(3.1)	67.9(3.8)	81.0(2.9)	73.4(3.3)	N
Grad from College	84.9(1.9)*	74.9(2.1)†	66.0(2.7)†*	83.8(1.9)*	77.5(1.2)#	LQ
Unknown	49.4(10.2)	49.6(4.3)	33.5(4.6)	49.2(3.6)	39.0(3.3)	N
SCHOOL TYPE						
Public School	70.1(2.8)	65.3(1.9)	54.0(1.4)†*	73.3(1.4)*	65.5(1.5)	Q
Non-Public	87.2(3.8)	80.4(3.1)	77.0(4.7)	86.2(2.5)	81.2(3.0)	N
QUARTILES						
Upper	99.6(0.4)	97.9(0.6)	95.1(0.8)†*	99.5(0.2)	98.6(0.7)	Q
Middle Two	84.4(3.9)	74.6(1.9)	60.3(1.8)†*	84.3(1.4)*	75.7(2.1)#	Q
Lower	21.6(3.6)	21.2(2.6)	12.5(1.8)*	31.6(2.5)*	19.1(1.8)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 8

Average writing scale scores across assessment years

Weighted percentages of observations with average writing scale scores at or above 300

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	13.0(1.8)	13.2(0.8)	12.1(0.8)*	24.7(1.5)†*	16.6(1.2)	L
GENDER						
Male	6.7(1.5)	6.4(1.1)	6.6(1.0)	15.3(1.6)†*	8.7(1.1)	L
Female	19.5(3.6)	19.7(1.3)*	17.8(1.3)*	33.9(1.9)†*	25.3(1.7)	L
RACE/ETHNICITY						
White	15.5(2.2)	16.1(1.1)	14.6(0.9)*	28.4(1.9)†*	20.6(1.5)	L
Black	2.6(1.7)	3.8(1.1)	4.0(1.1)	13.4(2.3)†*	4.9(1.6)	L
Hispanic	4.1(2.3)	5.5(1.5)	7.3(1.5)	15.8(2.4)†	8.8(2.5)	L
Other	16.3(6.7)	15.5(3.7)	12.6(2.8)	25.9(4.8)	13.8(2.8)	N
MODAL AGE						
Less Than Modal Age	***(***)	***(***)	***(***)	***(***)	***(***)	L
At Modal Age	16.2(1.8)	17.2(1.2)	14.3(1.1)*	31.3(1.6)†*	21.0(1.6)#	L
Greater Than Modal Age	7.6(2.8)	7.2(1.0)	8.2(1.1)	14.9(2.0)	10.7(1.4)	N
REGION						
Northeast	18.8(4.8)	12.9(1.4)*	14.0(1.6)*	34.4(3.8)†	24.1(3.6)	L
Southeast	13.6(3.0)	17.2(2.1)	10.3(1.5)	18.2(2.6)	11.5(1.4)	N
Central	9.6(2.3)*	10.2(1.4)*	13.1(2.4)	26.4(2.5)†	20.0(2.3)#	L
West	10.8(2.9)	12.6(1.8)	11.5(1.9)	21.8(2.6)†*	12.7(1.7)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	7.9(2.8)	6.8(1.7)	5.4(1.8)	10.1(4.2)	6.5(3.0)	N
Grad From H.S.	7.2(1.3)	8.5(1.2)	8.7(1.1)	18.8(1.9)†*	11.9(1.5)#	L
Some Educ. After H.S.	13.6(4.0)	21.6(3.1)	18.1(3.1)	26.9(3.2)†	18.6(3.6)	N
Grad from College	21.6(3.3)	17.4(1.9)	16.7(1.3)*	33.4(2.2)†*	22.8(1.8)	N
Unknown	4.5(2.1)	4.9(1.9)	4.2(1.2)	7.5(2.6)	3.9(1.4)	N
SCHOOL TYPE						
Public School	10.8(2.1)	12.0(1.0)	10.0(0.9)*	22.8(1.9)†*	15.4(1.3)	L
Non-Public	27.2(7.6)	21.7(4.1)	26.6(3.7)	37.2(3.7)	26.4(5.1)	N
QUARTILES						
Upper	43.7(3.9)	42.4(2.3)	40.0(1.4)*	65.9(2.2)†*	50.5(3.1)	L
Middle Two	4.1(1.7)	5.1(0.8)	4.3(0.8)	16.1(1.9)†*	7.9(1.3)	L
Lower	0.0(0.0)	0.1(0.1)	0.1(0.1)	0.8(0.6)	0.2(0.3)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 8

Average writing scale scores across assessment years

Weighted percentages of observations with average writing scale scores at or above 350

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	0.1(0.1)	0.2(0.1)	0.6(0.2)†	1.6(0.3)†*	0.6(0.2)#	L
GENDER						
Male	0.0(0.0)	0.1(0.1)	0.2(0.2)	0.5(0.2)	0.1(0.1)	L
Female	0.2(0.3)	0.4(0.2)	1.1(0.3)	2.7(0.6)†	1.1(0.4)	L
RACE/ETHNICITY						
White	0.1(0.2)	0.3(0.2)	0.8(0.2)	1.9(0.4)†	0.8(0.3)#	L
Black	0.0(0.0)	0.0(0.1)	0.1(0.1)	0.6(0.7)	0.1(0.2)	N
Hispanic	0.0(0.0)	0.0(0.0)	0.1(0.1)	0.9(0.7)	0.2(0.4)	N
Other	0.0(0.0)	0.5(0.9)	0.7(1.0)	1.8(1.2)	0.3(0.4)	N
MODAL AGE						
Less Than Modal Age	*** (***)	*** (***)	*** (***)	*** (***)	*** (***)	N
At Modal Age	0.1(0.2)	0.3(0.2)	0.8(0.2)	2.2(0.5)†*	0.9(0.3)#	L
Greater Than Modal Age	0.0(0.0)	0.1(0.1)	0.3(0.2)	0.7(0.4)	0.2(0.1)#	L
REGION						
Northeast	0.1(0.2)	0.3(0.3)	1.0(0.5)	3.1(0.7)†	1.1(0.4)#	L
Southeast	0.2(0.5)	0.3(0.3)	0.5(0.3)	0.8(0.4)	0.2(0.1)	N
Central	0.0(0.0)	0.1(0.1)	0.6(0.4)	1.6(0.7)	0.8(0.4)	L
West	0.0(0.0)	0.2(0.3)	0.4(0.3)	1.2(0.7)	0.4(0.4)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	0.0(0.0)	0.1(0.3)	0.1(0.4)	0.2(0.4)	0.2(0.5)	N
Grad From H.S.	0.0(0.1)	0.0(0.0)	0.3(0.2)	0.6(0.3)	0.3(0.2)	N
Some Educ. After H.S.	0.1(0.2)	0.4(0.4)	1.2(0.6)	2.1(0.9)	0.4(0.6)	N
Grad from College	0.2(0.4)	0.4(0.2)	0.9(0.4)	2.7(0.7)†	1.0(0.3)	L
Unknown	0.0(0.0)	0.1(0.4)	0.2(0.2)	0.0(0.1)	0.2(0.4)	N
SCHOOL TYPE						
Public School	0.0(0.1)	0.2(0.1)	0.5(0.2)	1.4(0.4)†	0.5(0.2)#	L
Non-Public	0.4(0.5)	0.6(0.5)	1.7(0.7)	3.0(1.3)	1.2(0.9)	N
QUARTILES						
Upper	0.3(0.5)	0.9(0.5)	2.5(0.6)†	6.3(1.0)†*	2.4(0.7)#	L
Middle Two	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.1(0.2)	0.0(0.0)	N
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 11

Average writing scale scores across assessment years

Weighted percentages of observations with average writing scale scores at or above 150

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	100.0(0.0)	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.1)	N
GENDER						
Male	100.0(0.0)	100.0(0.0)	100.0(0.1)	100.0(0.1)	99.9(0.1)	N
Female	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
RACE/ETHNICITY						
White	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Black	99.9(0.2)	100.0(0.0)	99.9(0.3)	99.8(0.3)	100.0(0.1)	N
Hispanic	100.0(0.0)	99.9(0.2)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Other	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	99.7(0.7)	N
MODAL AGE						
Less Than Modal Age	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
At Modal Age	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Greater Than Modal Age	100.0(0.1)	100.0(0.1)	99.9(0.2)	99.9(0.2)	99.9(0.2)	N
REGION						
Northeast	100.0(0.0)	100.0(0.0)	100.0(0.2)	100.0(0.0)	100.0(0.1)	N
Southeast	100.0(0.1)	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.1)	N
Central	100.0(0.0)	100.0(0.0)	100.0(0.1)	100.0(0.0)	99.9(0.1)	N
West	100.0(0.0)	100.0(0.0)	100.0(0.0)	99.9(0.1)	100.0(0.0)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	100.0(0.0)	100.0(0.0)	99.9(0.4)	100.0(0.0)	99.9(0.2)	N
Grad From H.S.	100.0(0.0)	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.0)	N
Some Educ. After H.S.	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Grad from College	100.0(0.0)	100.0(0.0)	100.0(0.1)	99.9(0.1)	100.0(0.0)	N
Unknown	*** (***)	99.8(0.5)	100.0(0.0)	100.0(0.0)	99.5(1.2)	N
SCHOOL TYPE						
Public School	100.0(0.0)	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.1)	N
Non-Public	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
QUARTILES						
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Lower	100.0(0.1)	100.0(0.0)	99.9(0.2)	99.9(0.2)	99.8(0.3)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 11

Average writing scale scores across assessment years

Weighted percentages of observations with average writing scale scores at or above 200

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	99.5(0.3)	99.7(0.3)	99.1(0.3)	99.5(0.2)	99.0(0.2)	N
GENDER						
Male	99.2(0.4)	99.6(0.6)	98.4(0.6)	99.2(0.4)	98.3(0.4)	N
Female	99.7(0.2)	99.8(0.1)	99.8(0.2)	99.9(0.1)	99.6(0.3)	N
RACE/ETHNICITY						
White	99.9(0.1)	99.8(0.3)	99.5(0.3)	99.8(0.1)	99.6(0.2)	N
Black	98.8(1.0)	99.7(0.5)	97.8(0.8)	98.4(0.8)	97.9(0.7)	N
Hispanic	96.8(1.8)	99.0(0.9)	98.4(1.6)	98.8(1.3)	97.3(1.3)	N
Other	98.8(1.8)	99.8(0.3)	98.3(1.6)	99.3(0.7)	98.1(1.0)	N
MODAL AGE						
Less Than Modal Age	99.9(0.3)	100.0(0.0)	99.6(0.6)	99.9(0.3)	99.4(0.6)	N
At Modal Age	99.9(0.1)	99.9(0.1)*	99.5(0.2)	99.8(0.2)	99.4(0.2)#	L
Greater Than Modal Age	97.8(0.9)	99.0(1.4)	97.6(0.9)	98.7(0.6)	97.8(0.8)	N
REGION						
Northeast	99.2(0.8)	99.9(0.1)	99.5(0.4)	99.5(0.3)	99.3(0.3)	N
Southeast	99.7(0.4)	99.8(0.2)	98.5(0.7)	99.4(0.5)	98.8(0.5)	N
Central	99.8(0.3)	99.5(1.1)	99.2(0.6)	99.8(0.2)	98.9(0.6)	N
West	99.3(0.5)	99.9(0.1)	99.1(0.6)	99.3(0.6)	99.1(0.6)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	99.0(0.8)	99.3(1.6)	97.9(2.1)	99.4(0.5)	98.4(1.0)	N
Grad From H.S.	99.4(0.5)	99.7(0.4)	98.3(0.7)	99.4(0.3)	99.0(0.7)	N
Some Educ. After H.S.	99.9(0.3)	99.8(0.6)	99.7(0.2)	99.6(0.2)	99.5(0.4)	N
Grad from College	99.9(0.1)	100.0(0.0)	99.7(0.3)	99.8(0.2)	99.6(0.3)	N
Unknown	*** (***)	97.9(1.5)	96.6(2.4)	95.4(4.6)	92.8(3.1)	N
SCHOOL TYPE						
Public School	99.4(0.3)	99.7(0.3)	99.0(0.4)	99.5(0.2)	98.9(0.3)	N
Non-Public	100.0(0.0)	100.0(0.1)	99.9(0.3)	99.7(0.5)	99.5(0.5)	N
QUARTILES						
Upper	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	100.0(0.0)	N
Middle Two	100.0(0.0)	100.0(0.0)	100.0(0.1)	100.0(0.0)	100.0(0.0)	N
Lower	98.0(1.0)	99.0(1.1)	96.3(1.4)	98.0(0.9)	96.1(0.9)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 11

Average writing scale scores across assessment years

Weighted percentages of observations with average writing scale scores at or above 250

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	89.4(1.0)*	92.7(1.5)*	84.3(1.3)†	87.4(1.3)	84.5(1.2)#	L
GENDER						
Male	84.2(1.6)	88.8(2.3)*	77.4(1.9)†	82.6(1.8)	78.9(1.6)#	L
Female	94.7(1.1)*	96.1(1.3)*	91.4(1.4)	92.9(1.2)	89.9(1.2)#	L
RACE/ETHNICITY						
White	94.8(1.3)*	95.7(1.4)*	88.6(1.4)†	92.6(0.8)*	89.2(1.0)#	L
Black	76.4(5.2)	83.4(4.0)	69.5(3.6)	68.3(5.7)	70.8(3.6)	N
Hispanic	62.3(9.2)	81.3(5.1)	76.8(3.6)	77.1(5.5)	74.2(4.1)	N
Other	90.2(4.3)	94.4(2.8)	81.0(5.2)	88.5(3.5)	85.8(3.9)	N
MODAL AGE						
Less Than Modal Age	93.0(1.8)	97.3(1.0)*	91.0(3.2)	91.3(2.5)	88.9(2.5)	N
At Modal Age	93.8(0.9)*	96.7(0.6)†*	88.5(1.6)†	92.5(1.1)	88.7(1.2)#	L
Greater Than Modal Age	71.8(3.8)	77.4(6.4)	70.4(2.3)	73.5(3.8)	72.4(3.1)	N
REGION						
Northeast	90.2(2.5)	94.9(2.1)	88.9(1.8)	89.3(1.9)	89.2(1.9)	N
Southeast	88.7(2.9)	92.1(1.6)*	78.7(2.5)†	79.9(3.4)	79.5(3.1)#	L
Central	91.0(2.2)	92.2(2.6)	85.2(2.2)	91.0(1.8)*	83.9(2.1)#	L
West	87.3(2.0)	91.7(2.2)	84.4(2.3)	89.0(1.9)	85.5(2.4)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	79.6(4.9)	81.4(5.4)	69.8(4.9)	74.7(5.6)	72.0(6.1)	N
Grad From H.S.	86.1(3.6)	90.6(2.4)*	78.8(2.6)	82.3(2.6)	82.1(1.9)	N
Some Educ. After H.S.	94.6(1.9)*	95.3(2.0)*	88.7(1.8)	91.5(2.1)	86.4(2.5)#	L
Grad from College	95.6(1.5)*	96.6(1.6)*	91.1(1.2)	92.7(1.5)	89.9(1.2)#	L
Unknown	*** (***)	76.5(8.1)	60.9(7.4)	64.4(7.7)	52.4(7.0)	N
SCHOOL TYPE						
Public School	88.5(1.1)*	92.0(1.6)*	83.4(1.3)†	86.8(1.4)	83.8(1.2)#	L
Non-Public	97.0(1.3)	96.7(2.1)	93.6(3.2)	93.4(2.7)	90.0(3.6)	L
QUARTILES						
Upper	99.9(0.2)	100.0(0.0)	99.9(0.1)	99.9(0.1)	99.9(0.1)	N
Middle Two	98.1(0.6)*	99.3(0.5)*	93.1(1.1)†	96.3(0.8)	93.7(0.9)#	L
Lower	61.4(3.5)	72.0(5.6)*	51.1(3.3)	57.1(4.0)	50.9(3.1)#	L

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Long-Term Trend Assessment — Grade 11

Average writing scale scores across assessment years

Weighted percentages of observations with average writing scale scores at or above 300

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	38.6(2.4)	39.2(1.7)*	36.7(1.1)	35.8(1.9)	33.1(1.5)	L
GENDER						
Male	27.9(1.9)	25.8(2.3)	25.9(1.7)	26.2(1.9)	23.7(2.1)	N
Female	49.5(3.8)	51.0(2.4)*	47.9(2.1)	46.7(2.5)	42.0(2.2)	N
RACE/ETHNICITY						
White	46.3(2.9)	45.6(2.0)	42.5(1.4)	43.3(2.2)	39.3(2.4)	N
Black	16.3(4.4)	16.8(2.8)	18.0(2.4)	9.9(2.7)	15.6(2.6)	N
Hispanic	7.8(4.3)	19.6(6.3)	25.6(3.1)†	19.7(4.3)	20.4(4.2)#	L
Other	34.7(7.8)	44.2(5.9)	32.0(5.8)	35.8(4.4)	30.9(5.4)	N
MODAL AGE						
Less Than Modal Age	42.8(6.9)	50.4(4.4)	44.1(5.4)	44.7(5.9)	39.4(4.1)	N
At Modal Age	44.9(2.4)	45.8(2.0)*	41.9(1.2)	42.5(2.9)	38.4(1.4)#	L
Greater Than Modal Age	14.0(3.1)	12.1(3.3)	20.2(2.0)	16.0(2.1)	17.3(3.0)	N
REGION						
Northeast	40.2(4.3)	44.1(3.6)	45.9(2.6)	39.2(3.0)	39.6(2.6)	N
Southeast	33.8(5.8)	35.7(5.0)	30.2(3.0)	25.5(4.4)	25.0(3.2)	N
Central	40.8(3.6)	40.9(4.9)	38.5(3.1)	39.8(3.0)	31.9(2.9)	N
West	38.6(4.3)	36.3(3.3)	33.3(1.9)	38.2(2.8)	35.7(3.5)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	18.1(7.2)	20.9(4.5)	18.3(3.2)	17.1(3.5)	18.1(6.3)	N
Grad From H.S.	30.8(3.3)	28.8(2.5)	27.5(2.5)	24.4(2.5)	25.4(2.2)	N
Some Educ. After H.S.	47.9(5.7)	45.3(4.9)	41.0(3.3)	40.7(3.3)	34.3(2.3)#	L
Grad from College	50.6(3.9)	50.0(3.6)	47.5(2.6)	46.1(2.3)	41.9(2.1)#	L
Unknown	*** (***)	9.9(4.5)	9.2(4.1)	9.1(5.7)	5.8(3.1)	N
SCHOOL TYPE						
Public School	36.1(2.4)	37.3(1.5)	35.0(0.9)	34.8(2.1)	32.4(1.8)	N
Non-Public	59.2(6.3)*	50.7(5.9)	56.4(7.5)	45.9(6.0)	38.2(4.8)#	L
QUARTILES						
Upper	86.3(2.4)	88.3(1.8)*	83.6(2.5)	82.3(3.3)	79.2(1.9)#	L
Middle Two	33.2(3.5)	33.6(2.4)	30.6(1.2)	29.9(2.0)	25.8(2.1)	N
Lower	1.7(1.1)	1.4(0.5)	2.2(0.7)	1.6(0.7)	1.6(1.1)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 Writing Trend Assessment — Grade 11

Average writing scale scores across assessment years

Weighted percentages of observations with average writing scale scores at or above 350

	1984	1988	1990	1992	1994	TREND TESTS
TOTAL	2.1(0.7)	1.1(0.4)*	4.1(0.7)	1.9(0.4)	2.5(0.3)	N
GENDER						
Male	1.1(0.4)	0.3(0.3)	1.7(0.4)	0.7(0.2)	1.2(0.2)	N
Female	3.2(1.5)	1.7(0.6)*	6.5(1.4)	3.1(0.8)	3.8(0.6)	N
RACE/ETHNICITY						
White	2.7(0.9)	1.3(0.5)*	5.0(0.8)	2.4(0.5)	3.3(0.5)	N
Black	0.3(0.4)	0.1(0.2)	0.9(0.4)	0.1(0.2)	0.4(0.5)	N
Hispanic	0.0(0.0)	0.2(0.3)	2.7(1.5)	0.3(0.7)	1.3(1.0)	N
Other	2.3(1.8)	1.2(0.8)	3.5(1.9)	2.7(1.5)	1.9(1.2)	N
MODAL AGE						
Less Than Modal Age	2.9(2.5)	2.0(1.2)	6.6(2.7)	3.3(1.3)	3.7(1.7)	N
At Modal Age	2.6(0.9)	1.2(0.4)*	4.7(0.7)	2.3(0.7)	3.1(0.3)	N
Greater Than Modal Age	0.1(0.4)	0.1(0.2)	1.3(0.5)	0.3(0.4)	0.7(0.6)	N
REGION						
Northeast	2.2(1.3)	1.4(0.6)	6.6(1.8)	1.7(0.7)	3.6(0.9)	N
Southeast	2.1(1.4)	0.8(0.7)	2.7(1.1)	1.0(0.8)	1.4(0.6)	N
Central	2.1(1.2)	1.1(0.9)	4.1(1.0)	2.3(0.7)	2.2(0.8)	N
West	2.2(1.8)	0.9(0.3)	3.2(0.7)	2.3(0.6)	2.9(0.7)	N
PARENTS' EDUCATION LEVEL						
Didn't Finish H.S.	0.4(0.7)	0.2(0.7)	0.2(0.3)	0.5(0.6)	0.7(0.7)	N
Grad From H.S.	0.9(0.9)	0.3(0.2)	1.9(0.5)	0.6(0.3)	1.2(0.6)	N
Some Educ. After H.S.	3.2(1.0)	1.0(0.8)	4.6(1.4)	2.7(1.0)	1.9(0.6)	N
Grad from College	3.6(1.3)	1.9(0.6)	6.5(1.4)	2.6(0.7)	4.1(0.7)	N
Unknown	*** (***)	0.0(0.0)	0.6(0.9)	0.3(0.7)	0.0(0.0)	N
SCHOOL TYPE						
Public School	1.9(0.7)	0.9(0.2)*	3.5(0.6)	1.9(0.5)	2.4(0.4)	N
Non-Public	4.5(2.7)	2.1(1.4)	10.7(3.0)	1.9(1.1)	3.3(1.5)	N
QUARTILES						
Upper	8.4(2.7)	4.2(1.5)*	15.5(2.6)	7.1(1.6)	9.8(1.4)	N
Middle Two	0.1(0.2)	0.0(0.0)	0.4(0.2)	0.2(0.2)	0.2(0.1)	N
Lower	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	N

* Statistically significant difference from 1994, at a 5 percent combined significance level per set of comparisons.

† Statistically significant difference between the earliest year with available data and a subsequent year, at a 5 percent combined significance level per set of comparisons. These notations (*, †) indicate statistical significance from a multiple comparison procedure based on the number of assessments with valid data.

Statistically significant difference between 1994 and the earliest year with available data, at a 5 percent combined significance level per set of comparisons. This notation indicates statistical significance without application of a multiple comparison procedure.

*** Sample size insufficient to permit a reliable estimate.

L Trend tests for linear terms were significant.

Q Trend tests for quadratic terms were significant.

N Trend tests for linear and quadratic terms were not significant.

The standard errors of the estimated percentages and scale scores appear in parenthesis.

NAEP 1994 National Writing Trend Assessment — Grade 4

Weighted means, standard deviations, and percentiles of writing distributions with jackknifed standard errors

	1984	1988	1990	1992	1994
TOTAL SAMPLE					
Mean	203.8(1.5)	205.7(1.6)	201.7(1.5)	207.1(1.5)	204.8(1.6)
St. Dev.	36.5(1.4)	42.0(0.8)	41.7(0.8)	38.2(0.6)	38.3(0.9)
Percentiles					
5	143.5(3.3)	135.4(3.3)	130.8(1.8)	142.2(1.9)	139.6(2.6)
10	156.8(2.7)	151.3(1.9)	147.2(2.3)	157.3(1.3)	154.7(3.3)
25	179.2(2.1)	177.0(1.6)	174.2(2.1)	181.9(1.4)	179.6(2.3)
50	204.2(2.9)	207.0(2.5)	202.9(1.7)	208.1(2.2)	206.1(1.3)
75	228.7(1.5)	235.0(1.8)	230.8(2.3)	233.2(1.6)	231.5(1.4)
90	250.5(2.2)	259.1(2.1)	254.6(2.1)	255.8(1.8)	253.2(1.3)
95	262.9(2.7)	273.7(2.6)	268.3(2.7)	268.8(2.9)	265.6(2.7)
MALE STUDENTS					
Mean	200.5(2.8)	199.0(2.3)	195.0(1.9)	198.3(1.7)	196.1(1.7)
St. Dev.	36.4(1.6)	41.5(1.0)	41.6(1.1)	37.4(0.8)	37.6(1.2)
Percentiles					
5	140.8(7.2)	129.1(4.3)	124.6(4.0)	135.0(2.3)	132.6(3.3)
10	153.7(4.3)	145.5(3.2)	140.4(3.1)	149.4(2.2)	146.5(2.9)
25	176.7(2.9)	170.7(2.5)	167.8(2.8)	173.7(1.8)	171.4(2.3)
50	200.0(3.1)	199.2(3.8)	195.9(1.9)	199.6(1.9)	197.4(2.1)
75	225.5(3.1)	228.0(2.9)	223.8(1.6)	223.5(2.3)	222.2(1.8)
90	246.3(2.8)	251.5(2.7)	247.7(1.9)	245.6(3.0)	242.9(1.6)
95	260.2(3.4)	265.7(3.5)	262.2(2.5)	258.0(3.0)	255.7(2.4)
FEMALE STUDENTS					
Mean	207.6(3.1)	212.6(2.0)	208.7(2.2)	216.1(1.7)	213.5(2.2)
St. Dev.	36.2(2.3)	41.4(1.2)	40.6(1.1)	36.9(0.9)	36.9(1.3)
Percentiles					
5	146.7(6.1)	143.3(2.2)	139.8(3.6)	153.0(3.1)	150.7(3.7)
10	161.1(5.5)	158.2(3.4)	155.4(3.6)	167.6(1.5)	164.9(5.8)
25	183.5(3.4)	184.9(4.5)	181.8(2.7)	191.7(2.5)	189.1(3.5)
50	208.7(3.0)	213.5(2.5)	209.8(2.9)	217.7(1.7)	214.9(1.7)
75	232.3(3.4)	241.3(1.9)	237.0(2.7)	241.6(1.5)	239.5(2.3)
90	253.7(7.0)	265.4(3.8)	260.2(2.0)	262.9(1.9)	259.7(2.1)
95	265.1(5.5)	279.7(2.5)	273.1(2.7)	275.4(2.9)	272.1(2.9)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 National Writing Trend Assessment — Grade 4

Weighted means, standard deviations, and percentiles of writing distributions with jackknifed standard errors (continued)

	1984	1988	1990	1992	1994
WHITE STUDENTS					
Mean	210.7(1.9)	214.9(1.9)	211.0(2.0)	216.7(1.7)	214.4(1.5)
St. Dev.	34.1(1.1)	38.7(1.2)	38.2(0.8)	34.7(0.7)	34.5(0.9)
Percentiles					
5	154.9(3.6)	151.0(4.3)	146.4(3.0)	159.0(2.3)	155.9(4.7)
10	166.6(3.3)	164.6(3.1)	161.6(3.5)	172.1(1.7)	170.2(2.9)
25	187.6(1.5)	188.5(1.8)	185.6(2.9)	193.9(1.9)	191.5(2.2)
50	211.1(2.2)	215.5(1.8)	211.4(1.9)	217.3(2.3)	215.2(1.0)
75	233.2(1.4)	241.6(2.1)	237.3(2.2)	240.4(1.6)	237.8(2.1)
90	255.0(4.5)	264.6(2.6)	260.0(1.6)	260.8(2.2)	258.1(1.4)
95	266.1(3.5)	278.4(3.3)	272.5(2.4)	273.1(2.8)	270.2(2.7)
BLACK STUDENTS					
Mean	181.6(5.0)	173.3(4.7)	171.4(5.4)	175.0(3.8)	172.7(3.2)
St. Dev.	34.8(3.3)	39.4(2.3)	40.3(1.6)	33.9(1.6)	35.3(1.9)
Percentiles					
5	123.9(6.5)	108.9(7.6)	104.8(5.2)	117.2(5.7)	113.5(9.2)
10	134.9(4.5)	122.3(5.9)	119.5(6.8)	130.5(4.2)	126.8(4.8)
25	159.5(4.9)	147.7(5.5)	144.0(4.9)	152.5(4.5)	149.7(4.9)
50	181.5(5.5)	172.6(4.6)	172.0(6.0)	175.7(4.2)	172.9(3.8)
75	205.2 (13.6)	199.7(4.6)	198.5(7.0)	198.2(3.3)	196.3(4.0)
90	227.9 (10.2)	224.4(6.0)	222.7(6.5)	217.9(3.6)	217.3(6.4)
95	239.6 (12.0)	237.5(5.8)	239.0(23.2)	229.2(6.4)	231.4(6.4)
HISPANIC STUDENTS					
Mean	188.5(5.8)	190.3(3.5)	184.1(4.1)	189.4(3.6)	188.5(3.1)
St. Dev.	37.1(5.3)	39.6(1.7)	38.8(1.9)	35.3(1.6)	35.5(2.0)
Percentiles					
5	130.0(13.1)	125.3(6.0)	120.3(7.5)	132.5(5.1)	131.0(4.9)
10	141.2(12.3)	139.4(6.1)	134.8(7.6)	143.7(5.1)	143.2(5.2)
25	161.9(8.7)	163.2(5.1)	158.7(7.1)	166.4(3.4)	163.6(4.7)
50	188.2(6.4)	190.8(5.1)	183.7(5.4)	188.8(4.3)	188.3(4.6)
75	214.2(8.0)	217.5(4.5)	210.1(3.8)	213.2(5.1)	212.8(4.0)
90	234.5(6.5)	240.7(4.3)	234.2(4.8)	234.5(5.5)	234.2(5.0)
95	247.3(7.5)	256.5(4.8)	247.8(5.8)	247.3(3.5)	246.9(5.1)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 National Writing Trend Assessment — Grade 8

Weighted means, standard deviations, and percentiles of writing distributions with jackknifed standard errors

	1984	1988	1990	1992	1994
TOTAL SAMPLE					
Mean	266.7(2.0)	263.7(1.3)	256.6(1.2)	274.4(1.3)	265.3(1.3)
St. Dev.	29.5(1.4)	32.4(0.6)	37.5(0.7)	36.3(0.9)	35.9(0.7)
Percentiles					
5	215.7(4.3)	208.6(2.9)	194.6(2.3)	213.7(2.0)	203.9(3.4)
10	227.0(3.7)	221.9(2.6)	207.9(1.9)	227.2(2.9)	218.0(2.5)
25	247.3(3.1)	242.5(1.9)	231.4(1.4)	249.9(1.5)	241.9(2.0)
50	268.3(2.6)	264.1(1.4)	256.7(1.6)	275.0(1.6)	266.4(1.3)
75	287.5(2.1)	285.7(1.2)	281.9(1.7)	299.7(1.7)	289.8(1.5)
90	303.7(1.8)	305.0(1.4)	304.4(1.3)	320.4(1.7)	310.7(1.8)
95	312.9(2.0)	315.7(1.8)	318.4(1.8)	332.4(1.6)	323.4(1.5)
MALE STUDENTS					
Mean	257.5(2.3)	253.7(1.5)	245.6(1.5)	263.6(1.9)	254.0(1.8)
St. Dev.	28.9(1.7)	31.3(0.9)	36.1(1.0)	34.8(1.0)	34.5(1.0)
Percentiles					
5	208.0(4.4)	201.0(3.7)	187.0(1.7)	205.8(3.3)	195.8(3.1)
10	219.7(4.1)	213.0(2.5)	199.3(1.8)	218.7(2.2)	208.3(2.4)
25	237.8(5.7)	233.1(1.6)	220.7(2.2)	240.3(2.6)	230.8(2.8)
50	258.6(3.2)	254.4(1.4)	245.6(1.6)	263.7(2.3)	254.8(2.5)
75	278.0(2.7)	275.0(1.3)	270.0(1.8)	288.2(2.1)	278.4(2.4)
90	293.9(3.0)	293.6(2.1)	291.9(2.8)	307.9(1.8)	297.6(2.1)
95	302.9(2.4)	304.0(3.5)	304.9(2.5)	319.5(2.3)	309.1(1.4)
FEMALE STUDENTS					
Mean	276.2(2.4)	273.5(1.7)	267.9(1.3)	285.0(1.3)	277.7(1.4)
St. Dev.	27.0(1.4)	30.5(0.6)	35.4(1.1)	34.6(1.0)	33.2(0.7)
Percentiles					
5	229.3(4.9)	222.6(3.3)	210.1(2.6)	227.0(4.1)	221.8(4.3)
10	241.5(4.4)	234.3(1.5)	223.1(2.3)	239.9(3.2)	235.1(3.2)
25	258.7(2.7)	253.3(2.4)	244.2(1.5)	261.7(1.6)	255.5(1.5)
50	277.1(3.5)	274.1(2.3)	267.8(1.2)	285.7(2.5)	278.6(1.0)
75	295.7(3.0)	294.4(1.5)	291.7(1.7)	308.9(1.5)	300.5(1.8)
90	309.7(2.4)	312.3(1.2)	313.6(1.8)	328.9(1.3)	320.3(1.6)
95	317.6(3.5)	322.5(2.0)	327.3(2.2)	340.1(3.0)	331.5(2.5)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 National Writing Trend Assessment — Grade 8

Weighted means, standard deviations, and percentiles of writing distributions with jackknifed standard errors (continued)

	1984	1988	1990	1992	1994
WHITE STUDENTS					
Mean	271.7(2.1)	269.1(1.3)	262.1(1.6)	279.2(1.3)	272.0(1.4)
St. Dev.	27.5(1.1)	31.1(0.6)	36.4(0.7)	35.1(0.8)	34.1(0.8)
Percentiles					
5	224.4(5.7)	216.5(2.3)	202.1(2.3)	220.4(3.4)	214.0(3.1)
10	235.1(3.2)	229.0(1.4)	215.3(2.9)	234.0(2.6)	228.2(2.1)
25	253.4(2.3)	248.5(1.8)	237.3(1.9)	255.5(1.7)	249.7(1.7)
50	272.7(2.7)	269.9(1.5)	262.5(1.6)	280.1(1.7)	272.8(2.0)
75	291.0(2.3)	290.5(1.3)	286.9(1.8)	303.5(1.9)	295.2(1.5)
90	306.3(2.0)	308.7(1.7)	308.5(1.8)	323.7(2.4)	315.4(2.0)
95	315.0(2.5)	319.1(1.3)	322.5(1.8)	335.4(2.5)	327.2(2.3)
BLACK STUDENTS					
Mean	247.1(5.7)	246.0(3.5)	239.0(2.3)	258.1(4.0)	244.8(3.4)
St. Dev.	27.4(1.7)	31.0(1.1)	35.6(1.9)	36.5(2.2)	33.5(2.0)
Percentiles					
5	200.8(7.2)	193.6(5.2)	181.6(5.7)	200.1(8.1)	189.6(6.2)
10	212.1(6.8)	205.2(6.1)	192.9(4.0)	212.5(7.4)	200.7(4.4)
25	228.5(6.9)	226.0(3.4)	215.6(4.4)	232.2(4.7)	222.0(6.1)
50	247.6(6.7)	246.6(4.3)	239.8(2.4)	257.0(3.6)	245.1(3.8)
75	265.3(3.7)	266.3(3.3)	263.3(2.7)	282.1(4.6)	268.4(4.2)
90	281.3(5.4)	285.2(5.7)	284.5(1.6)	306.3(3.3)	287.7(7.1)
95	291.5(3.6)	295.7(4.4)	297.2(3.1)	318.9(4.7)	300.1(3.7)
HISPANIC STUDENTS					
Mean	246.9(6.4)	250.4(2.5)	245.7(2.8)	265.0(2.2)	251.5(3.3)
St. Dev.	30.2(2.9)	31.0(1.6)	36.1(1.7)	35.3(2.5)	35.9(1.6)
Percentiles					
5	197.2(13.9)	199.2(5.9)	186.7(5.4)	203.4(6.4)	192.3(4.9)
10	206.6(11.7)	209.8(7.1)	198.8(3.7)	218.7(5.1)	204.4(3.9)
25	225.0(7.6)	230.5(5.3)	220.5(3.6)	242.0(5.0)	227.2(5.1)
50	247.2(7.0)	251.2(2.9)	246.5(4.7)	265.1(2.1)	251.9(3.2)
75	268.4(4.2)	270.9(2.4)	269.7(5.0)	288.2(4.3)	276.3(3.9)
90	286.1(5.8)	289.5(2.4)	292.3(3.3)	310.2(3.3)	297.7(6.2)
95	298.1(7.7)	300.6(5.4)	304.6(3.3)	323.8(3.5)	307.9(5.7)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 National Writing Trend Assessment — Grade 11

Weighted means, standard deviations, and percentiles of writing distributions with jackknifed standard errors

	1984	1988	1990	1992	1994
TOTAL SAMPLE					
Mean	289.7(1.6)	291.3(1.3)	287.1(1.0)	287.3(1.4)	284.6(1.2)
St. Dev.	31.8(0.6)	27.9(1.1)	36.5(1.1)	32.0(0.7)	34.4(0.8)
Percentiles					
5	235.7(2.3)	244.4(4.5)	226.7(2.7)	233.2(3.3)	227.2(2.0)
10	248.9(1.7)	255.2(2.4)	240.3(2.4)	245.7(2.1)	240.5(2.1)
25	268.9(1.7)	273.1(1.9)	262.3(1.8)	266.1(1.7)	262.3(1.7)
50	290.9(1.9)	292.4(1.3)	287.7(1.3)	288.2(1.2)	285.3(1.7)
75	312.1(1.7)	310.6(1.2)	311.9(1.4)	309.7(1.7)	308.0(1.5)
90	329.5(2.6)	326.3(1.4)	334.0(1.8)	327.6(1.5)	328.0(1.4)
95	340.0(2.9)	334.8(1.6)	346.6(2.7)	338.1(2.3)	340.3(1.3)
MALE STUDENTS					
Mean	281.1(1.4)	282.2(2.0)	276.4(1.6)	279.4(1.2)	275.9(1.5)
St. Dev.	31.5(0.8)	26.8(1.0)	35.2(0.8)	31.2(1.1)	33.8(1.1)
Percentiles					
5	227.2(3.5)	236.7(4.2)	218.2(2.8)	226.9(3.2)	219.4(3.1)
10	240.7(2.4)	248.2(3.5)	231.3(2.6)	239.0(2.0)	232.9(4.8)
25	260.3(1.4)	264.9(2.4)	252.8(2.0)	258.6(1.7)	254.3(1.7)
50	281.5(1.9)	282.9(2.0)	276.2(1.8)	280.5(1.2)	276.8(2.8)
75	303.0(2.0)	300.6(1.7)	300.9(1.6)	301.3(1.7)	298.6(2.2)
90	320.8(3.2)	316.0(1.9)	321.4(1.6)	318.5(1.6)	318.9(2.0)
95	331.4(2.6)	324.5(2.6)	333.1(1.8)	328.6(2.2)	330.9(1.9)
FEMALE STUDENTS					
Mean	298.6(2.5)	299.3(1.2)	298.2(1.5)	296.4(2.0)	292.8(1.5)
St. Dev.	29.5(1.1)	26.4(1.3)	34.4(1.6)	30.4(0.6)	33.0(0.9)
Percentiles					
5	249.1(4.4)	254.2(3.8)	241.2(4.0)	244.0(1.9)	237.4(2.8)
10	261.4(4.0)	265.4(2.7)	253.0(3.0)	256.6(3.1)	250.1(3.6)
25	279.3(3.1)	282.0(1.8)	274.9(1.6)	276.1(2.2)	271.0(1.6)
50	299.5(2.8)	300.7(1.7)	298.4(1.6)	297.4(2.3)	293.4(2.2)
75	318.9(2.8)	317.8(1.8)	321.8(1.5)	317.6(2.1)	314.9(0.9)
90	335.0(4.1)	331.7(1.7)	342.6(2.6)	334.9(1.8)	334.6(2.4)
95	344.8(4.9)	340.5(1.7)	354.3(4.1)	344.3(2.8)	346.3(2.3)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 National Writing Trend Assessment — Grade 11

Weighted means, standard deviations, and percentiles of writing distributions with jackknifed standard errors (continued)

	1984	1988	1990	1992	1994
WHITE STUDENTS					
Mean	296.8(1.8)	296.2(1.3)	292.8(1.2)	294.1(1.2)	290.8(1.4)
St. Dev.	28.5(1.0)	26.2(1.2)	35.2(1.2)	29.6(0.9)	32.7(0.8)
Percentiles					
5	249.2(3.8)	252.2(3.7)	234.7(3.4)	243.8(1.2)	237.1(2.5)
10	260.0(2.2)	262.7(2.8)	247.2(2.7)	255.6(2.0)	248.5(1.3)
25	277.0(1.4)	278.9(1.7)	268.9(1.6)	274.8(1.1)	268.9(1.5)
50	297.6(2.0)	297.1(1.2)	293.7(1.1)	295.0(1.3)	291.0(2.2)
75	316.4(2.6)	314.5(1.3)	317.0(1.3)	314.2(1.8)	313.0(1.6)
90	333.0(2.6)	329.3(1.3)	338.2(2.2)	331.4(1.4)	332.7(1.9)
95	343.0(4.0)	337.7(2.8)	349.6(2.8)	341.0(2.5)	344.3(2.1)
BLACK STUDENTS					
Mean	270.3(3.6)	275.2(2.9)	268.2(2.3)	263.2(3.2)	267.3(2.2)
St. Dev.	29.6(2.4)	26.0(1.4)	34.3(1.1)	28.9(1.4)	32.3(1.3)
Percentiles					
5	221.8(8.5)	231.7(6.2)	213.1(5.4)	216.4(5.0)	213.6(7.0)
10	231.8(6.8)	242.8(2.9)	224.7(3.0)	226.3(3.2)	225.6(5.1)
25	251.6(5.5)	257.5(3.3)	244.9(2.3)	244.7(5.8)	246.1(3.4)
50	270.0(3.3)	275.7(3.0)	268.4(3.2)	263.8(3.9)	267.4(2.6)
75	289.6(4.6)	293.8(3.0)	291.4(4.0)	282.6(4.3)	289.0(2.4)
90	308.9(7.8)	308.9(4.9)	311.0(2.3)	300.5(4.1)	308.9(2.1)
95	317.6(5.0)	318.1(3.8)	324.0(4.4)	309.3(5.1)	320.2(3.2)
HISPANIC STUDENTS					
Mean	259.1(6.6)	273.8(4.4)	276.9(2.6)	273.6(3.8)	271.3(4.0)
St. Dev.	30.8(2.0)	28.1(1.7)	36.2(2.3)	31.3(1.5)	34.8(2.2)
Percentiles					
5	207.5(10.8)	228.3(6.2)	217.4(9.7)	220.4(10.6)	211.5(7.9)
10	216.5(6.5)	235.9(8.4)	231.5(4.1)	234.0(2.7)	224.5(8.3)
25	238.2(7.5)	256.1(6.2)	252.6(4.0)	252.4(6.0)	249.8(6.6)
50	260.3(8.2)	274.1(3.9)	275.4(3.2)	275.3(4.6)	273.3(4.9)
75	281.1(7.1)	294.3(8.7)	300.8(6.0)	294.1(4.9)	294.3(4.0)
90	297.3(9.8)	309.0(5.6)	324.2(3.9)	313.7(3.5)	312.9(3.0)
95	305.7 (16.8)	316.3(5.4)	337.7(15.8)	323.7(3.1)	326.7(6.8)

The standard errors of the estimated scale scores appear in parenthesis.

NAEP 1994 National Writing Trend Assessment — Grades 4, 8, and 11

Trends in overall characteristics of papers

	YEAR	Percentiles			
		25th	50th	75th	90th
NUMBER OF WORDS					
Grade 4	1994	18.4	28.2	42.5	56.6
	1992	21.0	29.5	44.6	63.0
	1990	18.4	28.4	43.3	62.7
	1988	19.4	31.6	47.0	64.3
	1984	20.2	30.1	41.4	60.5
Grade 8	1994	43.6	65.4	91.2	121.4
	1992	45.9	66.9	100.7	138.6
	1990	40.7	66.0	100.1	131.7
	1988	45.1	66.6	98.0	125.8
	1984	40.2	58.3	89.2	120.0
Grade 11	1994	68.1	101.6	139.4	175.4
	1992	64.4	94.5	130.8	161.2
	1990	62.5	90.2	123.9	161.9
	1988	64.1	92.4	123.9	158.3
	1984	58.3	84.5	122.8	157.5
WORD LENGTH					
Grade 4	1994	3.8	4.2	4.6	5.2
	1992	3.7	4.0	4.3	4.6
	1990	3.7	4.0	4.3	4.5
	1988	3.7	4.0	4.3	4.5
	1984	3.7	4.0	4.3	4.5
Grade 8	1994	3.8	4.1	4.5	5.0
	1992	3.8	4.1	4.4	4.9
	1990	3.8	4.0	4.3	4.5
	1988	3.8	4.0	4.3	4.5
	1984	3.8	4.1	4.3	4.6
Grade 11	1994	3.9	4.2	4.7	5.2
	1992	3.9	4.2	4.7	5.2
	1990	3.8	4.1	4.5	5.0
	1988	3.8	4.2	4.6	5.1
	1984	3.8	4.2	4.6	5.1
NUMBER OF SENTENCES					
Grade 4	1994	1.1	1.9	3.1	4.4
	1992	1.2	2.1	3.4	5.0
	1990	1.1	2.0	3.6	5.1
	1988	1.3	2.3	3.7	5.0
	1984	1.3	2.2	3.4	4.8
Grade 8	1994	2.6	4.1	6.2	8.3
	1992	2.8	4.4	6.7	9.2
	1990	2.7	4.4	6.4	9.2
	1988	2.7	4.4	6.8	8.8
	1984	2.3	3.9	5.9	8.2
Grade 11	1994	4.0	5.9	8.7	11.1
	1992	3.8	5.8	8.1	10.8
	1990	3.7	5.4	7.6	9.5
	1988	3.8	5.5	7.3	9.7
	1984	3.4	5.2	7.3	9.9

NAEP 1994 National Writing Trend Assessment — Grades 4, 8, and 11

Trends in overall characteristics of papers (continued)

		Percentiles			
	YEAR	25th	50th	75th	90th
NUMBER OF WORDS PER SENTENCE					
Grade 4	1994	10.0	14.1	19.2	27.7
	1992	10.1	13.8	19.7	27.5
	1990	9.2	12.9	18.7	28.1
	1988	9.1	12.5	17.6	26.6
	1984	9.5	12.7	18.0	25.5
Grade 8	1994	12.3	15.2	19.2	24.7
	1992	12.4	15.3	19.0	25.5
	1990	11.9	15.2	19.3	25.3
	1988	12.0	14.5	18.1	24.8
	1984	12.5	15.3	19.0	26.5
Grade 11	1994	13.3	16.1	19.8	24.1
	1992	13.3	16.0	19.6	24.9
	1990	14.1	16.5	19.8	25.1
	1988	14.2	16.9	19.7	24.6
	1984	13.9	16.2	20.3	25.5
NUMBER OF ERRORS					
Grade 4	1994	2.4	4.2	6.9	10.7
	1992	2.4	4.4	7.0	11.1
	1990	2.2	4.1	6.7	9.4
	1988	2.2	4.0	6.8	10.3
	1984	2.0	3.8	6.3	10.0
Grade 8	1994	3.4	6.0	9.6	14.2
	1992	3.8	6.2	9.3	13.5
	1990	3.2	5.9	9.5	13.5
	1988	2.8	5.3	8.4	11.8
	1984	2.4	4.4	7.8	12.0
Grade 11	1994	4.1	6.9	10.3	14.8
	1992	3.0	5.1	8.9	12.8
	1990	3.5	5.8	9.5	13.4
	1988	2.3	4.6	7.2	11.1
	1984	2.9	4.8	7.5	11.4
ERROR RATE					
Grade 4	1994	9.5	15.2	24.2	32.9
	1992	8.4	14.4	24.0	32.8
	1990	8.1	14.8	22.9	32.9
	1988	7.5	13.2	21.0	35.0
	1984	7.3	13.4	20.6	30.5
Grade 8	1994	5.7	9.3	15.1	20.7
	1992	5.8	8.8	13.6	18.6
	1990	5.5	9.1	13.4	19.2
	1988	4.6	8.2	13.5	18.1
	1984	4.5	7.5	12.2	17.7
Grade 11	1994	4.3	6.8	10.9	16.0
	1992	3.4	5.8	9.5	15.0
	1990	4.2	6.7	9.4	13.4
	1988	2.8	4.9	8.1	11.9
	1984	3.4	5.9	9.5	13.7

NAEP 1994 National Writing Trend Assessment — Grades 4, 8, and 11

Trends in overall characteristics of papers (continued)

	YEAR	Percentiles			
		25th	50th	75th	90th
PERCENTAGE RUN-ON SENTENCE					
Grade 4	1994	0.0	0.1	0.5	99.6
	1992	0.0	0.1	0.4	50.4
	1990	0.0	0.2	16.9	99.7
	1988	0.0	0.2	24.7	67.2
	1984	0.0	0.2	20.3	50.3
Grade 8	1994	0.0	0.1	0.4	32.7
	1992	0.0	0.1	0.5	24.9
	1990	0.0	0.2	0.5	33.2
	1988	0.0	0.1	0.4	29.0
	1984	0.0	0.1	0.4	25.1
Grade 11	1994	0.0	0.1	0.4	16.6
	1992	0.0	0.1	0.4	16.8
	1990	0.0	0.1	0.4	17.3
	1988	0.0	0.1	0.4	12.0
	1984	0.0	0.1	0.4	19.9
PERCENTAGE SENTENCE FRAGMENTS					
Grade 4	1994	0.0	0.1	0.4	32.6
	1992	0.0	0.1	0.3	19.8
	1990	0.0	0.1	0.3	17.1
	1988	0.0	0.1	0.4	24.6
	1984	0.0	0.0	0.3	0.5
Grade 8	1994	0.0	0.1	0.4	25.1
	1992	0.0	0.1	0.4	19.6
	1990	0.0	0.1	0.4	17.0
	1988	0.0	0.1	0.4	14.1
	1984	0.0	0.1	0.4	14.1
Grade 11	1994	0.0	0.1	0.4	14.5
	1992	0.0	0.1	0.4	16.9
	1990	0.0	0.1	0.3	10.9
	1988	0.0	0.1	0.4	11.5
	1984	0.0	0.1	0.4	12.5
PERCENTAGE SENTENCES WITH AGREEMENT ERRORS					
Grade 4	1994	0.0	0.1	0.4	49.7
	1992	0.0	0.1	0.4	49.8
	1990	0.0	0.0	0.3	0.5
	1988	0.0	0.0	0.3	0.5
	1984	0.0	0.0	0.3	0.5
Grade 8	1994	0.0	0.3	16.6	33.4
	1992	0.0	0.2	11.0	29.1
	1990	0.0	0.1	0.4	11.8
	1988	0.0	0.1	0.3	8.1
	1984	0.0	0.1	0.3	9.0
Grade 11	1994	0.0	0.2	11.2	25.0
	1992	0.0	0.2	10.9	24.7
	1990	0.0	0.1	0.4	11.3
	1988	0.0	0.0	0.3	0.5
	1984	0.0	0.1	0.3	0.5

NAEP 1994 National Writing Trend Assessment — Grades 4, 8, and 11

Trends in overall characteristics of papers (continued)

		Percentiles			
	YEAR	25th	50th	75th	90th
PERCENTAGE AWKWARD SENTENCES					
Grade 4	1994	0.0	0.3	49.9	99.9
	1992	0.0	14.0	50.3	100.0
	1990	0.0	20.0	66.9	100.0
	1988	0.0	14.4	50.2	99.9
	1984	0.0	0.4	49.6	99.8
Grade 8	1994	0.2	20.4	49.5	67.4
	1992	11.4	25.4	49.6	74.7
	1990	17.2	33.5	59.9	99.6
	1988	12.5	32.9	50.4	99.7
	1984	0.3	25.4	49.9	99.6
Grade 11	1994	0.2	16.6	32.7	50.0
	1992	0.4	20.2	39.7	59.9
	1990	17.2	33.2	50.5	75.3
	1988	0.2	17.1	37.4	60.1
	1984	7.8	25.0	49.8	71.5
PERCENTAGE MISSPELLED WORDS					
Grade 4	1994	2.2	6.8	11.9	19.3
	1992	2.9	6.6	13.0	21.5
	1990	2.5	6.5	13.9	20.5
	1988	2.4	6.4	12.0	22.5
	1984	2.2	6.6	12.0	18.1
Grade 8	1994	0.7	2.9	5.8	9.8
	1992	0.9	2.9	5.6	9.5
	1990	0.9	2.9	5.5	9.8
	1988	0.7	2.8	5.7	9.2
	1984	0.4	2.7	5.2	9.0
Grade 11	1994	0.8	2.1	4.0	6.6
	1992	0.4	1.5	3.5	5.9
	1990	0.6	1.8	3.6	6.5
	1988	0.2	1.3	2.8	4.6
	1984	0.4	1.5	3.3	5.9
PERCENTAGE WORD-CHOICE ERRORS					
Grade 4	1994	0.0	0.2	2.6	5.3
	1992	0.0	0.1	0.4	2.8
	1990	0.0	0.1	0.4	2.1
	1988	0.0	0.1	0.4	2.2
	1984	0.0	0.1	0.4	3.0
Grade 8	1994	0.0	0.3	1.6	2.9
	1992	0.0	0.2	0.9	2.2
	1990	0.0	0.2	0.8	2.1
	1988	0.0	0.2	0.9	2.4
	1984	0.0	0.2	0.9	2.4
Grade 11	1994	0.0	0.4	1.3	2.4
	1992	0.0	0.2	0.9	1.7
	1990	0.0	0.3	1.0	1.8
	1988	0.0	0.2	0.9	2.0
	1984	0.0	0.3	1.1	2.0

NAEP 1994 National Writing Trend Assessment — Grades 4, 8, and 11

Trends in overall characteristics of papers (continued)

		Percentiles			
	YEAR	25th	50th	75th	90th
PERCENTAGE CAPITALIZATION ERRORS					
Grade 4	1994	0.0	0.2	1.7	6.7
	1992	0.0	0.1	0.4	3.9
	1990	0.0	0.1	0.3	1.8
	1988	0.0	0.0	0.3	0.5
	1984	0.0	0.1	0.3	0.5
Grade 8	1994	0.0	0.2	1.1	3.5
	1992	0.0	0.2	0.5	2.6
	1990	0.0	0.1	0.3	0.7
	1988	0.0	0.1	0.3	0.5
	1984	0.0	0.0	0.3	0.5
Grade 11	1994	0.0	0.3	1.1	3.0
	1992	0.0	0.1	0.5	1.7
	1990	0.0	0.0	0.3	0.5
	1988	0.0	0.0	0.3	0.4
	1984	0.0	0.0	0.3	0.4
TOTAL PUNCTUATION ERRORS PER 100 WORDS					
Grade 4	1994	0.0	0.4	3.9	6.7
	1992	0.0	1.5	4.4	7.2
	1990	0.0	1.6	4.5	7.8
	1988	0.0	1.4	4.4	7.8
	1984	0.0	0.5	4.3	7.2
Grade 8	1994	0.3	1.7	3.2	4.9
	1992	0.3	1.6	3.0	4.5
	1990	0.2	1.5	3.0	4.7
	1988	0.1	1.0	2.7	4.6
	1984	0.1	1.2	2.6	4.3
Grade 11	1994	0.3	1.3	2.5	3.6
	1992	0.1	0.9	2.1	3.4
	1990	0.3	1.2	2.3	3.5
	1988	0.3	1.2	2.3	3.8
	1984	0.2	1.1	2.3	4.2
PUNCTUATION OMITTED PER 100 WORDS					
Grade 4	1994	0.0	0.3	3.3	6.1
	1992	0.0	0.4	3.8	6.1
	1990	0.0	0.7	4.4	7.8
	1988	0.0	0.7	4.1	7.4
	1984	0.0	0.4	3.8	6.9
Grade 8	1994	0.1	1.3	2.9	4.5
	1992	0.1	1.1	2.5	4.0
	1990	0.1	1.0	2.5	4.3
	1988	0.0	0.5	2.1	4.0
	1984	0.0	0.5	2.0	3.8
Grade 11	1994	0.2	1.1	2.2	3.3
	1992	0.0	0.6	1.7	2.8
	1990	0.1	0.9	1.9	3.1
	1988	0.1	0.7	1.9	3.1
	1984	0.0	0.6	1.9	3.6

NAEP 1994 National Writing Trend Assessment — Grades 4, 8, and 11

Trends in overall characteristics of papers (continued)

	YEAR	Percentiles			
		25th	50th	75th	90th
WRONG PUNCTUATION PER 100 WORDS					
Grade 4	1994	0.0	0.0	0.3	0.5
	1992	0.0	0.1	0.4	1.6
	1990	0.0	0.0	0.3	0.4
	1988	0.0	0.0	0.3	0.5
	1984	0.0	0.0	0.3	0.5
Grade 8	1994	0.0	0.1	0.4	1.1
	1992	0.0	0.1	0.4	1.6
	1990	0.0	0.1	0.4	1.2
	1988	0.0	0.1	0.4	1.5
	1984	0.0	0.1	0.5	1.9
Grade 11	1994	0.0	0.1	0.4	1.2
	1992	0.0	0.1	0.4	1.2
	1990	0.0	0.1	0.5	1.3
	1988	0.0	0.2	0.5	1.5
	1984	0.0	0.1	0.4	1.4

NAEP 1994 National Writing Trend Assessment — Grades 4, 8, and 11

Trends in overall characteristics of papers for good and poor papers

	YEAR	Task Accomplishment		Overall Fluency	
		Good Papers (Primary Trait) 3+4	Poor Papers (Primary Trait) 1+2	Good Papers (Holistic) 4,5+6	Poor Papers (Holistic) 1,2+3
NUMBER OF WORDS					
Grade 4	1994	46.2(1.73)	28.6(0.75)	51.8(1.83)	27.1(0.69)
	1992	47.1(1.51)	31.8(0.87)	55.8(1.61)	29.7(0.74)
	1990	53.3(2.34)	27.2(0.88)	57.8(2.52)	28.2(0.92)
	1988	51.4(4.22)	30.0(1.25)	67.6(5.11)	30.2(0.69)
	1984	48.4(2.08)	28.4(0.82)	55.9(2.39)	29.2(0.80)
Grade 8	1994	08.8(5.86)	66.5(1.72)	00.2(2.94)	56.9(1.71)
	1992	08.4(4.88)	73.8(3.00)	17.3(4.18)	62.7(2.46)
	1990	26.0(9.70)	68.9(1.75)	08.3(3.53)	55.5(1.67)
	1988	09.4(8.01)	69.6(2.53)	99.5(2.70)	55.8(1.86)
	1984	91.9(4.25)	63.7(1.88)	04.7(3.50)	54.0(1.67)
Grade 11	1994	39.1(4.63)	94.5(3.65)	36.2(3.79)	82.0(2.97)
	1992	38.4(4.01)	91.9(2.52)	25.9(2.62)	72.4(3.22)
	1990	40.3(4.54)	89.0(2.48)	20.7(3.61)	72.5(2.64)
	1988	31.9(5.24)	88.6(2.16)	20.1(3.42)	73.1(2.83)
	1984	34.5(7.08)	84.0(1.61)	19.7(3.44)	64.4(1.53)
WORD LENGTH					
Grade 4	1994	4.2(0.03)	4.3(0.02)	4.1(0.03)	4.4(0.02)
	1992	4.0(0.04)	4.1(0.02)	4.1(0.03)	4.1(0.02)
	1990	4.0(0.02)	4.0(0.03)	4.0(0.03)	4.0(0.02)
	1988	4.0(0.03)	4.0(0.03)	4.0(0.03)	4.0(0.03)
	1984	4.0(0.03)	4.0(0.03)	3.9(0.03)	4.0(0.02)
Grade 8	1994	4.3(0.03)	4.3(0.02)	4.3(0.02)	4.3(0.03)
	1992	4.2(0.03)	4.2(0.04)	4.2(0.03)	4.2(0.04)
	1990	4.2(0.04)	4.1(0.02)	4.1(0.02)	4.1(0.02)
	1988	4.2(0.06)	4.1(0.02)	4.1(0.03)	4.1(0.02)
	1984	4.2(0.04)	4.1(0.02)	4.2(0.03)	4.1(0.02)
Grade 11	1994	4.4(0.03)	4.4(0.03)	4.4(0.02)	4.4(0.03)
	1992	4.5(0.03)	4.3(0.02)	4.4(0.02)	4.4(0.02)
	1990	4.4(0.02)	4.2(0.01)	4.3(0.02)	4.2(0.02)
	1988	4.4(0.03)	4.3(0.03)	4.4(0.03)	4.3(0.02)
	1984	4.4(0.05)	4.3(0.02)	4.4(0.02)	4.2(0.02)
NUMBER OF SENTENCES					
Grade 4	1994	3.4(0.22)	2.0(0.07)	3.4(0.19)	2.0(0.08)
	1992	3.5(0.17)	2.3(0.08)	4.1(0.19)	2.2(0.08)
	1990	3.9(0.19)	2.1(0.08)	4.3(0.25)	2.2(0.08)
	1988	3.8(0.28)	2.3(0.15)	5.1(0.32)	2.3(0.10)
	1984	3.8(0.26)	2.2(0.08)	4.2(0.31)	2.3(0.09)
Grade 8	1994	6.8(0.52)	4.4(0.13)	6.6(0.21)	3.7(0.13)
	1992	7.2(0.42)	4.8(0.23)	7.8(0.32)	4.0(0.18)
	1990	7.8(0.61)	4.6(0.12)	6.8(0.22)	3.8(0.13)
	1988	6.4(0.70)	4.8(0.22)	6.8(0.31)	3.8(0.16)
	1984	5.9(0.31)	4.2(0.14)	6.8(0.28)	3.5(0.12)
Grade 11	1994	8.3(0.37)	5.9(0.20)	8.3(0.26)	5.1(0.19)
	1992	8.4(0.33)	5.7(0.19)	7.7(0.20)	4.6(0.24)
	1990	8.2(0.32)	5.4(0.16)	7.2(0.23)	4.4(0.18)
	1988	7.9(0.36)	5.3(0.18)	7.0(0.23)	4.5(0.18)
	1984	8.3(0.43)	5.0(0.13)	7.1(0.23)	3.9(0.10)

NAEP 1994 National Writing Trend Assessment — Grades 4, 8, and 11

Trends in overall characteristics of papers for good and poor papers (continued)

	YEAR	Task Accomplishment		Overall Fluency	
		Good Papers (Primary Trait) 3+4	Poor Papers (Primary Trait) 1+2	Good Papers (Holistic) 4,5+6	Poor Papers (Holistic) 1,2+3
NUMBER OF WORDS PER SENTENCE					
Grade 4	1994	17.5(1.31)	16.3(0.57)	20.3(2.06)	15.7(0.60)
	1992	16.2(0.81)	16.3(0.38)	16.8(0.94)	16.2(0.39)
	1990	17.9(1.24)	15.4(0.50)	17.3(1.72)	15.7(0.49)
	1988	15.9(1.39)	14.9(0.69)	14.6(1.42)	15.3(0.61)
	1984	16.0(0.69)	14.7(0.43)	17.2(1.29)	14.6(0.39)
Grade 8	1994	17.4(0.97)	17.2(0.31)	16.7(0.56)	17.6(0.40)
	1992	16.7(1.25)	18.2(0.88)	16.1(0.60)	18.7(1.06)
	1990	17.0(0.86)	16.6(0.31)	17.2(0.46)	16.3(0.35)
	1988	20.2(2.70)	16.7(0.52)	16.5(0.75)	17.1(0.69)
	1984	16.7(0.76)	17.4(0.41)	16.4(0.53)	17.6(0.48)
Grade 11	1994	18.4(0.70)	17.4(0.63)	17.7(0.46)	17.9(0.87)
	1992	17.3(0.52)	17.5(0.44)	17.5(0.46)	17.4(0.63)
	1990	18.0(0.58)	17.7(0.31)	17.5(0.24)	18.1(0.49)
	1988	17.4(0.46)	18.2(0.57)	18.0(0.38)	18.1(0.72)
	1984	16.5(0.34)	18.6(0.55)	18.0(0.54)	18.3(0.63)
NUMBER OF ERRORS					
Grade 4	1994	6.1(0.40)	5.0(0.21)	7.2(0.58)	4.7(0.18)
	1992	6.5(0.49)	5.2(0.22)	6.9(0.44)	5.1(0.23)
	1990	7.2(0.70)	4.4(0.23)	7.1(0.66)	4.6(0.26)
	1988	5.0(0.62)	5.0(0.34)	6.2(0.68)	4.8(0.33)
	1984	5.9(0.38)	4.3(0.18)	6.4(0.52)	4.4(0.19)
Grade 8	1994	8.0(0.68)	7.2(0.27)	8.3(0.47)	6.8(0.26)
	1992	8.3(0.55)	6.9(0.21)	9.1(0.45)	6.3(0.23)
	1990	8.3(0.71)	6.8(0.26)	8.9(0.38)	5.8(0.22)
	1988	7.0(0.84)	6.1(0.24)	7.2(0.32)	5.6(0.25)
	1984	7.6(0.68)	5.3(0.22)	7.6(0.45)	5.0(0.20)
Grade 11	1994	8.5(0.53)	7.8(0.37)	8.2(0.39)	7.8(0.44)
	1992	7.4(0.50)	6.2(0.25)	6.9(0.31)	5.9(0.34)
	1990	8.5(0.63)	6.6(0.24)	7.6(0.39)	6.2(0.29)
	1988	6.1(0.43)	5.1(0.35)	5.9(0.39)	4.7(0.37)
	1984	6.6(0.59)	5.6(0.19)	6.5(0.30)	5.0(0.27)
ERROR RATE					
Grade 4	1994	13.3(0.76)	19.2(0.81)	14.3(1.06)	19.0(0.79)
	1992	14.9(1.03)	17.5(0.64)	12.7(0.77)	18.0(0.56)
	1990	13.8(0.78)	18.8(0.98)	12.2(0.93)	18.8(0.93)
	1988	9.9(0.59)	20.1(1.71)	9.3(0.73)	18.5(1.63)
	1984	12.6(0.69)	16.5(0.74)	11.2(0.82)	16.3(0.72)
Grade 8	1994	8.0(0.78)	11.3(0.31)	8.6(0.41)	12.2(0.41)
	1992	8.2(0.72)	11.1(0.83)	8.3(0.38)	11.7(1.06)
	1990	7.1(0.50)	11.0(0.42)	8.5(0.40)	11.9(0.55)
	1988	6.6(0.90)	9.8(0.35)	7.6(0.35)	10.9(0.50)
	1984	8.7(0.82)	9.2(0.41)	7.2(0.42)	9.9(0.46)
Grade 11	1994	6.2(0.35)	9.2(0.35)	6.2(0.32)	10.2(0.41)
	1992	5.3(0.35)	7.9(0.48)	5.6(0.25)	9.5(0.79)
	1990	6.1(0.42)	8.1(0.41)	6.4(0.25)	9.3(0.69)
	1988	4.7(0.30)	6.6(0.52)	5.1(0.33)	7.4(0.77)
	1984	5.5(0.73)	7.2(0.16)	5.7(0.25)	8.4(0.24)

NAEP 1994 National Writing Trend Assessment — Grades 4, 8, and 11

Trends in sentence-level errors for good and poor papers

	YEAR	Task Accomplishment		Overall Fluency	
		Good Papers (Primary Trait) 3+4	Poor Papers (Primary Trait) 1+2	Good Papers (Holistic) 4,5+6	Poor Papers (Holistic) 1,2+3
PERCENTAGE RUN-ON SENTENCES					
Grade 4	1994	13.4(3.12)	15.3(1.29)	15.8(3.02)	14.9(1.74)
	1992	11.5(2.81)	13.6(1.67)	9.8(2.38)	14.1(1.80)
	1990	17.1(2.78)	17.5(2.01)	13.0(2.44)	18.5(1.87)
	1988	16.0(4.19)	17.3(2.80)	8.5(3.17)	18.6(2.59)
	1984	17.9(2.94)	14.4(1.70)	21.6(3.74)	14.3(1.75)
Grade 8	1994	7.0(2.07)	7.9(0.94)	4.5(1.08)	9.9(1.31)
	1992	3.3(1.02)	8.4(1.02)	4.5(1.29)	9.1(1.18)
	1990	6.8(2.50)	10.0(1.01)	7.0(1.19)	11.3(1.30)
	1988	7.5(4.48)	7.8(1.30)	6.1(1.50)	8.9(1.88)
	1984	4.8(1.57)	7.6(0.99)	4.4(1.07)	8.2(1.18)
Grade 11	1994	3.4(1.15)	5.7(1.15)	3.6(0.78)	6.7(1.68)
	1992	3.5(1.11)	5.5(0.96)	3.8(0.86)	6.6(1.25)
	1990	4.5(1.64)	5.6(0.90)	4.0(0.76)	6.9(1.50)
	1988	2.0(0.48)	4.4(1.24)	2.8(0.99)	5.1(1.85)
	1984	2.9(0.77)	4.9(0.81)	3.3(0.74)	6.1(1.20)
PERCENTAGE FRAGMENTS					
Grade 4	1994	4.5(1.05)	6.9(0.97)	3.8(0.79)	7.1(1.05)
	1992	3.1(0.82)	4.6(0.60)	4.8(1.18)	4.0(0.59)
	1990	3.6(0.82)	4.4(0.83)	4.1(1.12)	4.3(0.78)
	1988	3.4(1.25)	5.4(1.49)	3.9(1.28)	5.0(1.26)
	1984	2.9(0.76)	3.3(0.62)	3.0(1.01)	3.2(0.63)
Grade 8	1994	5.1(1.55)	5.8(0.79)	3.2(0.54)	6.8(1.00)
	1992	5.5(1.71)	4.1(0.74)	5.1(1.02)	4.0(0.90)
	1990	1.0(0.51)	3.9(0.44)	2.3(0.39)	4.3(0.61)
	1988	0.7(0.54)	3.9(0.58)	2.9(0.61)	4.3(0.79)
	1984	6.0(2.23)	2.8(0.46)	4.0(0.69)	3.0(0.58)
Grade 11	1994	2.1(0.59)	4.7(0.75)	2.3(0.38)	5.2(0.88)
	1992	2.8(0.87)	4.5(0.94)	2.6(0.46)	5.8(1.54)
	1990	1.3(0.38)	3.0(0.46)	1.9(0.33)	3.6(0.75)
	1988	2.2(0.89)	2.7(0.64)	1.7(0.67)	3.5(0.91)
	1984	3.9(1.49)	2.8(0.43)	1.9(0.44)	4.2(0.72)
PERCENTAGE SENTENCES WITH AGREEMENT ERRORS					
Grade 4	1994	11.2(2.55)	9.3(1.38)	15.0(4.00)	8.2(1.25)
	1992	7.0(1.57)	12.1(1.41)	6.8(1.74)	12.2(1.46)
	1990	3.3(0.96)	3.7(0.75)	3.2(1.15)	3.7(0.68)
	1988	0.9(0.49)	3.1(0.71)	1.6(0.95)	2.6(0.60)
	1984	4.1(1.45)	3.2(0.63)	4.6(1.58)	3.3(0.81)
Grade 8	1994	7.0(1.63)	11.4(1.31)	10.0(1.18)	11.8(1.57)
	1992	4.4(1.02)	9.0(0.74)	5.2(0.87)	9.6(0.92)
	1990	4.1(1.57)	3.5(0.60)	1.8(0.43)	4.5(0.81)
	1988	0.9(0.53)	2.6(0.49)	1.6(0.38)	2.9(0.62)
	1984	4.7(1.79)	2.9(0.66)	1.9(0.55)	3.6(0.81)
Grade 11	1994	8.6(1.44)	7.8(1.11)	7.2(1.04)	8.8(1.52)
	1992	4.3(0.76)	7.6(0.73)	5.5(0.66)	8.7(1.27)
	1990	2.2(0.46)	2.6(0.35)	2.4(0.39)	2.7(0.46)
	1988	1.3(0.43)	1.8(0.37)	1.5(0.44)	1.9(0.52)
	1984	1.3(0.41)	3.0(0.60)	1.4(0.28)	3.9(0.99)

NAEP 1994 National Writing Trend Assessment — Grades 4, 8, and 11

Trends in sentence-level errors for good and poor papers (continued)

	YEAR	Task Accomplishment		Overall Fluency	
		Good Papers (Primary Trait) 3+4	Poor Papers (Primary Trait) 1+2	Good Papers (Holistic) 4,5+6	Poor Papers (Holistic) 1,2+3
PERCENTAGE AWKWARD SENTENCES					
Grade 4	1994	17.4(2.87)	28.1(2.57)	24.1(4.23)	26.6(2.65)
	1992	30.3(3.65)	32.7(2.01)	31.5(4.02)	32.3(2.34)
	1990	31.1(3.25)	35.9(2.04)	31.0(3.88)	35.6(2.13)
	1988	25.2(3.35)	33.6(3.08)	24.8(2.81)	32.3(2.84)
	1984	21.4(3.24)	26.9(2.26)	21.6(4.79)	25.9(2.36)
Grade 8	1994	20.6(3.11)	28.5(1.21)	20.4(1.49)	31.7(1.69)
	1992	27.6(2.92)	32.1(1.46)	28.7(1.75)	32.8(1.64)
	1990	35.5(2.98)	40.5(1.61)	38.6(1.41)	40.9(2.17)
	1988	36.5(7.21)	38.1(2.06)	29.9(1.99)	42.7(2.51)
	1984	22.8(3.45)	33.6(1.78)	20.9(2.02)	36.4(1.90)
Grade 11	1994	16.2(1.46)	21.4(1.19)	17.5(1.15)	22.2(1.42)
	1992	24.3(2.23)	26.8(1.59)	22.4(1.31)	30.6(2.30)
	1990	36.7(2.53)	38.1(1.91)	33.3(1.44)	42.5(2.55)
	1988	21.1(1.59)	25.0(1.66)	20.8(2.04)	27.9(1.68)
	1984	24.8(2.07)	32.6(1.99)	28.0(2.01)	34.6(2.80)

NAEP 1994 National Writing Trend Assessment — Grades 4, 8, and 11

Trends in word-level errors for good and poor papers

	YEAR	Task Accomplishment		Overall Fluency	
		Good Papers (Primary Trait) 3+4	Poor Papers (Primary Trait) 1+2	Good Papers (Holistic) 4,5+6	Poor Papers (Holistic) 1,2+3
PERCENTAGE MISSPELLED WORDS					
Grade 4	1994	6.6(0.57)	9.1(0.43)	7.5(0.76)	8.8(0.43)
	1992	8.3(0.88)	9.0(0.49)	6.6(0.56)	9.5(0.44)
	1990	7.5(0.62)	9.6(0.67)	5.9(0.67)	9.8(0.67)
	1988	4.8(0.55)	10.8(0.86)	4.9(0.64)	9.8(0.86)
	1984	7.0(0.59)	8.9(0.54)	5.9(0.78)	8.8(0.50)
Grade 8	1994	3.0(0.53)	4.1(0.22)	3.3(0.24)	4.4(0.30)
	1992	3.1(0.47)	4.0(0.20)	3.1(0.28)	4.2(0.24)
	1990	2.5(0.31)	4.4(0.28)	3.2(0.32)	4.8(0.37)
	1988	2.5(0.73)	4.1(0.22)	2.9(0.28)	4.6(0.31)
	1984	4.0(0.62)	3.6(0.23)	2.9(0.30)	4.0(0.28)
Grade 11	1994	2.1(0.19)	3.1(0.20)	2.1(0.17)	3.5(0.23)
	1992	1.9(0.24)	2.5(0.19)	1.9(0.16)	3.0(0.28)
	1990	1.8(0.20)	3.2(0.38)	2.0(0.13)	3.9(0.65)
	1988	1.5(0.17)	2.1(0.21)	1.8(0.21)	2.2(0.28)
	1984	2.0(0.47)	2.4(0.12)	1.9(0.15)	2.7(0.21)
PERCENTAGE WORD CHOICE ERRORS					
Grade 4	1994	1.1(0.16)	1.6(0.15)	1.0(0.22)	1.7(0.14)
	1992	0.6(0.14)	0.8(0.09)	0.6(0.12)	0.8(0.09)
	1990	0.6(0.13)	0.5(0.10)	0.4(0.09)	0.6(0.10)
	1988	0.3(0.07)	0.7(0.11)	0.3(0.13)	0.6(0.10)
	1984	0.6(0.17)	0.8(0.12)	0.7(0.24)	0.8(0.11)
Grade 8	1994	0.7(0.12)	0.9(0.05)	0.7(0.07)	1.0(0.09)
	1992	0.6(0.08)	0.6(0.05)	0.4(0.09)	0.7(0.06)
	1990	0.4(0.09)	0.6(0.06)	0.6(0.07)	0.6(0.08)
	1988	0.4(0.17)	0.7(0.06)	0.6(0.06)	0.7(0.08)
	1984	0.7(0.11)	0.7(0.08)	0.6(0.10)	0.7(0.10)
Grade 11	1994	0.4(0.06)	0.9(0.09)	0.5(0.06)	1.0(0.10)
	1992	0.3(0.05)	0.6(0.06)	0.3(0.04)	0.7(0.10)
	1990	0.4(0.06)	0.5(0.05)	0.5(0.05)	0.6(0.08)
	1988	0.3(0.06)	0.6(0.06)	0.4(0.06)	0.6(0.09)
	1984	0.4(0.05)	0.7(0.07)	0.5(0.06)	0.7(0.11)
PERCENTAGE CAPITALIZATION ERRORS					
Grade 4	1994	1.0(0.32)	2.3(0.34)	0.8(0.12)	2.3(0.33)
	1992	0.5(0.12)	1.1(0.10)	0.5(0.12)	1.1(0.10)
	1990	0.3(0.09)	0.9(0.17)	0.5(0.16)	0.8(0.16)
	1988	0.2(0.08)	0.7(0.37)	0.0(0.01)	0.7(0.32)
	1984	0.3(0.11)	0.5(0.14)	0.2(0.13)	0.5(0.12)
Grade 8	1994	0.5(0.16)	1.1(0.12)	0.7(0.13)	1.2(0.14)
	1992	0.6(0.17)	1.1(0.43)	0.4(0.05)	1.3(0.53)
	1990	0.2(0.11)	0.3(0.06)	0.1(0.04)	0.4(0.07)
	1988	0.2(0.10)	0.2(0.02)	0.1(0.03)	0.2(0.03)
	1984	0.2(0.14)	0.3(0.06)	0.2(0.04)	0.3(0.07)
Grade 11	1994	0.7(0.15)	1.2(0.17)	0.5(0.08)	1.5(0.23)
	1992	0.2(0.04)	0.6(0.13)	0.3(0.04)	0.8(0.21)
	1990	0.1(0.03)	0.1(0.03)	0.1(0.03)	0.2(0.04)
	1988	0.0(0.01)	0.1(0.05)	0.0(0.03)	0.2(0.08)
	1984	0.1(0.06)	0.1(0.03)	0.1(0.02)	0.1(0.05)

NAEP 1994 National Writing Trend Assessment — Grades 4, 8, and 11

Trends in punctuation-level errors for good and poor papers

	YEAR	Task Accomplishment		Overall Fluency	
		Good Papers (Primary Trait) 3+4	Poor Papers (Primary Trait) 1+2	Good Papers (Holistic) 4,5+6	Poor Papers (Holistic) 1,2+3
TOTAL PUNCTUATION ERRORS PER 100 WORDS					
Grade 4	1994	2.2(0.31)	2.3(0.19)	2.3(0.30)	2.3(0.19)
	1992	2.4(0.24)	2.6(0.17)	2.1(0.24)	2.7(0.16)
	1990	2.4(0.20)	3.4(0.37)	2.5(0.31)	3.3(0.33)
	1988	1.7(0.20)	3.7(0.53)	1.3(0.24)	3.5(0.45)
	1984	1.8(0.24)	2.9(0.26)	1.7(0.29)	2.8(0.23)
Grade 8	1994	1.6(0.28)	2.2(0.11)	1.8(0.13)	2.2(0.12)
	1992	1.5(0.18)	2.0(0.11)	1.7(0.11)	2.0(0.13)
	1990	1.4(0.16)	2.1(0.13)	1.7(0.10)	2.2(0.17)
	1988	1.3(0.23)	1.8(0.12)	1.5(0.15)	1.9(0.17)
	1984	1.5(0.19)	1.8(0.14)	1.6(0.10)	1.9(0.14)
Grade 11	1994	1.5(0.16)	1.7(0.08)	1.4(0.10)	1.9(0.12)
	1992	1.0(0.12)	1.4(0.10)	1.2(0.09)	1.5(0.16)
	1990	1.3(0.18)	1.5(0.07)	1.4(0.09)	1.6(0.10)
	1988	1.3(0.15)	1.9(0.36)	1.3(0.08)	2.2(0.55)
	1984	0.9(0.14)	1.7(0.10)	1.2(0.09)	2.1(0.24)
PUNCTUATION OMITTED PER 100 WORDS					
Grade 4	1994	1.9(0.31)	2.0(0.17)	2.1(0.30)	2.0(0.17)
	1992	1.9(0.21)	2.2(0.17)	1.7(0.23)	2.3(0.16)
	1990	2.3(0.20)	3.2(0.35)	2.3(0.31)	3.1(0.32)
	1988	1.6(0.19)	3.5(0.52)	1.3(0.24)	3.3(0.44)
	1984	1.6(0.25)	2.6(0.24)	1.5(0.28)	2.5(0.22)
Grade 8	1994	1.4(0.28)	1.9(0.10)	1.6(0.14)	1.9(0.10)
	1992	1.2(0.19)	1.6(0.11)	1.3(0.12)	1.6(0.13)
	1990	1.0(0.11)	1.8(0.13)	1.3(0.10)	2.0(0.17)
	1988	1.0(0.19)	1.4(0.13)	1.0(0.10)	1.5(0.19)
	1984	1.2(0.19)	1.4(0.10)	1.2(0.10)	1.4(0.11)
Grade 11	1994	1.2(0.15)	1.4(0.08)	1.2(0.09)	1.6(0.12)
	1992	0.7(0.10)	1.1(0.08)	0.9(0.07)	1.2(0.13)
	1990	1.1(0.14)	1.2(0.07)	1.1(0.08)	1.3(0.08)
	1988	1.0(0.13)	1.5(0.37)	1.0(0.08)	1.9(0.56)
	1984	0.6(0.10)	1.3(0.09)	0.8(0.07)	1.8(0.23)
WRONG PUNCTUATION PER 100 WORDS					
Grade 4	1994	0.2(0.07)	0.3(0.08)	0.2(0.07)	0.3(0.08)
	1992	0.5(0.10)	0.4(0.08)	0.4(0.08)	0.4(0.07)
	1990	0.1(0.05)	0.2(0.04)	0.2(0.06)	0.2(0.04)
	1988	0.1(0.04)	0.2(0.05)	0.1(0.04)	0.2(0.04)
	1984	0.2(0.06)	0.3(0.09)	0.2(0.09)	0.3(0.08)
Grade 8	1994	0.1(0.05)	0.3(0.03)	0.2(0.04)	0.3(0.05)
	1992	0.2(0.06)	0.4(0.05)	0.3(0.05)	0.4(0.06)
	1990	0.3(0.09)	0.3(0.04)	0.4(0.05)	0.2(0.04)
	1988	0.2(0.11)	0.4(0.05)	0.4(0.08)	0.4(0.07)
	1984	0.4(0.10)	0.5(0.07)	0.4(0.06)	0.5(0.08)
Grade 11	1994	0.3(0.07)	0.3(0.05)	0.2(0.04)	0.3(0.06)
	1992	0.2(0.07)	0.3(0.03)	0.2(0.04)	0.3(0.04)
	1990	0.2(0.06)	0.3(0.03)	0.3(0.04)	0.3(0.05)
	1988	0.3(0.06)	0.4(0.07)	0.3(0.05)	0.4(0.09)
	1984	0.3(0.08)	0.4(0.05)	0.4(0.05)	0.4(0.07)

NAEP 1994 Writing Trend Assessment — Grade 4

Percentages of students at each score point, means, and standard errors for items scored by primary trait and holistic methods

	Not Rated	Unsatisfactory	Minimal	Adequate	Elaborated	Minimal or Better	Adequate or Better		
PRIMARY TRAIT									
Plants	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	1.4(0.4)	14.7(1.4)	43.8(2.3)	40.0(2.2)		83.9(1.6)		2.22(0.03)	
1988	1.3(0.6)	16.0(1.4)	42.5(1.6)	40.2(1.8)		82.7(1.7)		2.22(0.03)	
1990	0.8(0.2)	23.3(1.5)*	39.3(1.6)*	36.7(1.7)		75.9(1.5)*		2.12(0.03)	
1992	1.0(0.3)	16.1(1.0)	42.7(1.6)	40.2(1.6)		82.9(1.1)		2.22(0.02)	
1994	1.1(0.3)	15.4(1.2)	47.5(1.5)	36.1(1.6)		83.6(1.1)		2.19(0.02)	
XYZ Company	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	3.8(1.2)	50.1(2.6)	8.6(1.2)	37.5(2.3)		46.1(2.4)		1.80(0.05)	
1988	2.8(0.4)	52.8(1.8)	8.7(0.9)	35.6(1.9)		44.3(1.8)		1.77(0.04)	
1990	1.7(0.4)	55.4(1.5)	4.4(0.6)*	38.5(1.5)		42.9(1.4)		1.80(0.03)	
1992	2.2(0.4)	50.7(1.4)	11.6(0.9)*	35.4(1.4)		47.0(1.4)		1.80(0.03)	
1994	2.7(0.6)	52.3(1.5)	7.4(0.7)	37.5(1.6)		45.0(1.5)		1.80(0.03)	
Spaceship	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	6.9(1.1)	30.0(1.8)	43.1(2.2)	19.7(1.4)	0.3(0.2)	63.1(2.2)	20.0(1.4)	1.77(0.04)	
1988	5.2(0.6)	33.2(1.3)	36.7(1.6)	23.7(1.7)	1.2(0.4)*	61.6(1.1)	24.9(1.7)	1.82(0.02)	
1990	2.8(0.5)	31.1(1.6)	42.1(1.6)	23.3(1.4)	0.6(0.2)	66.1(1.5)	24.0(1.4)	1.88(0.03)	
1992	4.7(0.5)	31.4(1.2)	43.9(1.3)	19.6(1.3)	0.4(0.2)	63.9(1.2)	20.0(1.3)	1.80(0.02)	
1994	3.9(0.6)	33.8(1.4)	41.2(1.3)	20.9(1.3)	0.2(0.1)	62.3(1.6)	21.1(1.3)	1.80(0.03)	
Radio Station	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	6.9(1.0)*	50.0(1.9)	31.7(2.2)	11.3(1.6)	0.1(0.1)	43.1(2.0)	11.4(1.6)	1.48(0.03)	
1988	4.8(0.7)	46.6(1.4)	33.5(1.3)	15.1(1.2)	0.0(0.0)	48.6(1.6)	15.1(1.2)	1.59(0.03)	
1990	2.3(0.5)	49.7(1.8)	35.1(1.6)	12.6(1.0)	0.2(0.2)	47.9(1.8)	12.8(1.1)	1.59(0.03)	
1992	3.9(0.5)	45.6(1.5)	32.8(1.2)	17.4(1.0)	0.3(0.2)	50.5(1.5)	17.7(1.0)	1.65(0.02)	
1994	3.4(0.5)	49.5(1.9)	31.3(1.6)	15.8(1.5)	0.0(0.0)	47.1(2.0)	15.8(1.5)	1.60(0.03)	
Appleby House	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	4.3(1.1)	28.7(2.1)*	50.8(2.2)*	16.2(1.3)	0.0(0.0)	67.0(2.5)*	16.2(1.3)	1.79(0.04)*	
1988	2.2(0.6)	24.6(1.3)	49.5(1.4)*	23.7(1.7)*	0.0(0.0)	73.2(1.1)	23.7(1.7)*	1.95(0.02)	
1990	1.8(0.5)	22.4(1.3)	63.9(1.7)	11.7(1.1)*	0.2(0.1)	75.7(1.3)	11.8(1.1)*	1.86(0.02)	
1992	1.7(0.4)	22.8(1.3)	53.0(2.0)*	22.4(1.7)*	0.1(0.1)	75.5(1.3)	22.5(1.7)*	1.97(0.02)	
1994	2.0(0.5)	21.7(1.4)	59.1(1.3)	17.2(1.2)	0.1(0.1)	76.4(1.5)	17.2(1.2)	1.92(0.03)	
Flashlight	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	0.9(0.3)	35.9(2.3)*	54.6(2.0)	8.5(1.5)*	0.1(0.2)	63.2(2.4)*	8.6(1.5)	1.71(0.03)*	
1988	1.7(0.6)	33.2(2.5)	50.9(2.5)	13.8(2.0)	0.4(0.4)	65.1(2.7)	14.3(2.0)	1.78(0.04)	
1990	2.1(0.7)	32.3(2.6)	53.8(2.5)	11.2(1.4)	0.6(0.3)	65.6(2.6)	11.8(1.5)	1.76(0.04)*	
1992	0.8(0.4)	28.7(1.7)	58.3(1.7)	11.9(1.2)	0.3(0.1)	70.5(1.7)	12.2(1.2)	1.82(0.02)	
1994	0.5(0.3)	26.9(1.7)	58.1(2.2)	14.5(1.3)	0.0(0.0)	72.6(1.9)	14.5(1.3)	1.87(0.03)	
HOLISTIC									
Spaceship	(0)	(1)	(2)	(3)	(4)	(5)	(6)	(4,5,6)	Mean
1984	4.6(0.8)	13.3(1.7)*	26.1(1.9)	44.5(1.7)	10.8(1.4)*	0.7(0.4)*	0.0(0.0)	11.4(1.4)*	2.46(0.04)*
1988	5.9(0.7)	11.0(0.9)*	27.2(1.1)	43.9(1.3)	10.6(1.3)*	1.0(0.3)	0.3(0.2)	11.9(1.4)*	2.47(0.03)*
1990	5.5(0.6)	10.3(1.0)*	23.0(1.4)	42.6(1.6)	16.8(1.3)	1.7(0.4)	0.1(0.1)	18.6(1.5)	2.61(0.04)
1992	7.4(0.8)	5.9(0.8)	22.3(1.3)	45.3(1.4)	17.6(1.2)	1.3(0.3)	0.2(0.1)	19.0(1.3)	2.64(0.04)
1994	7.3(0.8)	7.0(1.0)	23.5(1.3)	42.2(1.7)	17.6(1.3)	2.3(0.5)	0.2(0.1)	20.1(1.4)	2.63(0.05)
Flashlight	(0)	(1)	(2)	(3)	(4)	(5)	(6)	(4,5,6)	Mean
1984	6.1(1.1)	7.4(1.1)	25.1(2.2)	37.7(1.7)	18.5(1.6)	3.9(1.1)	1.3(0.4)	23.6(2.1)	2.72(0.07)
1988	4.1(1.0)	6.2(1.1)	23.7(1.3)	41.4(2.4)	19.7(2.3)	4.3(1.2)	0.6(0.4)	24.6(2.5)	2.82(0.07)
1990	3.2(0.7)	8.2(1.3)	22.8(2.2)	37.0(2.2)	21.5(1.5)	5.5(0.9)	1.8(0.5)	28.8(2.0)*	2.89(0.05)
1992	4.7(0.7)	4.8(1.0)	23.2(1.6)	39.2(2.0)	20.3(1.5)	6.5(0.9)	1.3(0.5)	28.1(1.6)	2.90(0.04)
1994	4.6(0.9)	6.9(1.2)	22.8(1.8)	42.7(2.5)	18.6(1.5)	3.8(0.8)	0.5(0.3)	23.0(1.5)	2.77(0.05)

* Significant difference from the 1994 result.
The standard errors appear in parenthesis.

NAEP 1994 Writing Trend Assessment — Grade 8

Percentages of students at each score point, means, and standard errors for items scored by primary trait and holistic methods

	Not Rated	Unsatisfactory	Minimal	Adequate	Elaborated	Minimal or Better	Adequate or Better		
PRIMARY TRAIT									
Recreation Opportunity	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	2.2(0.7)	47.6(2.5)	40.5(2.6)	9.6(1.4)	0.2(0.2)	50.2(2.7)	9.7(1.4)	1.58(0.04)	
1988	3.1(0.6)*	52.3(1.7)	37.4(1.2)	7.2(0.9)*	0.1(0.1)	44.6(1.7)	7.2(0.9)	1.49(0.02)	
1990	1.3(0.4)	59.4(1.9)*	30.2(1.6)*	8.5(0.9)	0.6(0.2)	39.3(1.9)	9.1(1.0)	1.48(0.03)	
1992	1.2(0.4)	50.4(1.9)	33.8(1.5)	13.8(1.1)*	0.8(0.4)	48.4(1.9)	14.5(1.1)	1.63(0.03)	
1994	1.4(0.3)	51.7(1.5)	36.2(1.4)	10.2(0.9)	0.5(0.2)	46.8(1.5)	10.7(0.8)	1.57(0.02)	
Food on the Frontier	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	0.8(0.4)	19.2(1.8)	71.3(1.7)*	8.5(1.4)	0.2(0.1)	80.0(1.9)	8.7(1.4)	1.88(0.03)	
1988	0.6(0.3)	20.9(1.7)	65.7(1.8)	12.5(1.3)	0.3(0.1)	78.5(1.7)	12.8(1.3)	1.91(0.03)	
1990	1.4(0.4)	30.1(1.2)*	52.3(1.3)*	15.7(1.1)*	0.4(0.2)	68.5(1.2)*	16.1(1.1)*	1.84(0.02)	
1992	0.4(0.2)*	21.1(1.4)	64.8(1.3)	13.1(1.1)	0.6(0.2)	78.4(1.4)	13.6(1.1)	1.92(0.02)	
1994	1.9(0.5)	22.0(1.6)	63.9(1.9)	12.0(0.8)	0.2(0.1)	76.1(1.8)	12.2(0.9)	1.87(0.02)	
Dissecting Frogs	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	1.0(0.4)	14.4(1.4)*	73.9(1.8)*	10.4(1.2)*	0.2(0.2)	84.6(1.4)*	10.6(1.2)*	1.94(0.02)	
1988	0.8(0.2)	16.9(1.7)	65.9(1.9)	15.9(1.1)	0.4(0.2)	82.2(1.7)	16.3(1.1)	1.98(0.02)	
1990	1.2(0.3)*	23.7(1.2)	63.3(1.3)	11.2(0.9)*	0.6(0.2)	75.1(1.2)*	11.8(0.9)*	1.86(0.02)*	
1992	0.9(0.2)	11.6(1.1)*	67.2(1.6)*	19.1(1.7)	1.2(0.4)	87.5(1.1)*	20.4(1.8)	2.08(0.03)*	
1994	0.4(0.2)	19.9(1.4)	61.9(1.6)	17.4(1.5)	0.4(0.2)	79.7(1.5)	17.8(1.5)	1.98(0.03)	
XYZ Company	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	0.0(0.0)	15.7(1.4)*	11.9(1.5)*	72.5(1.9)		84.3(1.4)*		2.57(0.03)	
1988	0.3(0.2)	21.4(1.4)	7.5(0.8)	70.7(1.4)		78.3(1.4)		2.49(0.03)	
1990	0.3(0.1)	22.6(1.4)	7.1(0.6)	70.1(1.4)		77.2(1.4)		2.47(0.03)	
1992	0.2(0.1)	21.4(1.4)	6.1(0.7)	72.3(1.6)		78.4(1.4)		2.51(0.03)	
1994	0.2(0.1)	20.1(1.2)	6.7(0.6)	73.1(1.4)		79.8(1.3)		2.53(0.03)	
Radio Station	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	0.2(0.2)	27.2(1.7)	41.8(1.8)	30.2(1.9)	0.6(0.2)	72.6(1.7)	30.7(1.9)	2.04(0.03)	
1988	0.6(0.2)	33.4(1.5)	40.8(1.6)	24.8(1.0)	0.4(0.2)	66.1(1.5)	25.3(1.0)*	1.91(0.02)*	
1990	0.7(0.3)	34.1(1.5)*	40.7(1.3)	23.5(1.3)*	1.1(0.3)	65.2(1.5)*	24.5(1.3)*	1.90(0.03)*	
1992	0.8(0.2)	27.5(1.5)	40.2(1.8)	30.0(1.5)	1.4(0.4)	71.6(1.6)	31.4(1.4)	2.04(0.03)	
1994	0.4(0.2)	29.0(1.4)	41.2(1.6)	28.3(1.3)	1.1(0.3)	70.6(1.4)	29.4(1.3)	2.01(0.02)	
Appleby House	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	0.4(0.3)	9.6(1.5)	44.2(2.4)	44.3(2.4)	1.6(0.5)	90.0(1.5)	45.8(2.4)	2.37(0.03)	
1988	0.3(0.2)	10.2(1.1)*	40.9(1.8)*	47.4(1.6)	1.3(0.3)	89.5(1.1)*	48.7(1.6)	2.39(0.02)	
1990	0.4(0.2)	9.0(0.8)*	51.3(1.5)	36.9(1.5)	2.4(0.5)*	90.6(0.8)*	39.3(1.5)	2.32(0.02)	
1992	0.3(0.2)	7.9(0.8)	33.1(1.5)*	57.3(1.5)*	1.3(0.3)	91.8(0.8)	58.6(1.4)*	2.51(0.02)*	
1994	0.2(0.1)	6.7(0.7)	49.7(1.9)	42.8(2.1)	0.7(0.3)	93.2(0.7)	43.5(2.2)	2.37(0.03)	
HOLISTIC									
Recreation Opportunity	(0)	(1)	(2)	(3)	(4)	(5)	(6)	(4,5,6)	Mean
1984	6.2(1.2)	7.5(0.9)	13.9(1.4)	48.4(3.0)	21.0(2.0)*	2.9(0.8)	0.1(0.1)	24.1(2.2)*	2.80(0.05)
1988	1.7(0.4)*	6.6(0.8)	12.8(0.9)	42.9(1.7)	30.3(1.3)	4.8(0.9)	0.8(0.3)	36.0(1.6)	3.11(0.04)
1990	4.3(0.6)	6.0(0.7)	15.1(1.0)	40.9(1.3)	28.4(1.2)	4.2(0.5)	1.0(0.2)	33.7(1.4)	3.00(0.04)
1992	3.6(0.6)	4.8(0.7)	16.7(1.1)	47.8(1.9)	23.6(1.5)	3.0(0.5)*	0.6(0.3)	27.2(1.7)*	2.94(0.04)
1994	5.0(0.9)	5.1(0.8)	13.2(1.0)	43.5(1.5)	27.6(1.1)	5.0(0.7)	0.6(0.2)	33.2(1.2)	3.01(0.04)
Food on the Frontier	(0)	(1)	(2)	(3)	(4)	(5)	(6)	(4,5,6)	Mean
1984	5.5(1.1)	3.3(0.7)	20.7(1.5)	36.2(1.9)	23.1(1.9)	9.3(1.2)	1.9(0.6)	34.3(2.2)	3.04(0.06)
1988	2.8(0.7)	4.4(0.9)	21.5(1.4)	39.5(1.4)	24.0(1.6)	6.4(0.8)	1.4(0.4)	31.8(2.0)	3.02(0.05)
1990	3.7(0.5)	4.3(0.6)*	25.1(1.4)*	36.7(1.5)	22.3(1.6)*	6.6(0.7)	1.4(0.3)	30.3(1.8)*	2.95(0.04)
1992	4.4(0.8)	2.4(0.4)	16.4(1.4)	41.1(1.5)	24.4(1.2)	8.3(1.0)	2.9(0.4)	35.7(1.7)	3.16(0.05)
1994	5.3(0.8)	2.1(0.5)	18.9(1.1)	37.6(1.3)	27.2(1.0)	6.8(0.7)	2.2(0.6)	36.1(1.3)	3.08(0.04)

* Significant difference from the 1994 result.
The standard errors appear in parenthesis.

NAEP 1994 Writing Trend Assessment — Grade 11

Percentages of students at each score point, means, and standard errors for items scored by primary trait and holistic methods

	Not Rated	Unsatisfactory	Minimal	Adequate	Elaborated	Minimal or Better	Adequate or Better		
PRIMARY TRAIT									
Recreation Opportunity	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	0.6(0.4)	26.0(2.4)*	56.8(3.0)*	16.3(2.2)	0.3(0.3)*	73.5(2.5)*	16.6(2.0)*	1.90(0.04)	
1988	2.9(0.4)*	29.3(1.6)	47.3(1.5)*	19.7(1.7)	0.8(0.2)	67.8(1.6)	20.5(1.7)	1.86(0.03)	
1990	1.3(0.4)	33.0(1.7)	45.2(1.7)	19.5(1.1)	0.9(0.3)	65.7(1.9)	20.4(1.1)	1.86(0.03)	
1992	1.3(0.4)	31.6(1.5)	52.4(1.3)*	14.5(1.1)*	0.2(0.1)*	67.1(1.6)	14.7(1.1)*	1.81(0.03)	
1994	1.4(0.4)	34.7(1.7)	40.4(1.4)	21.6(1.5)	2.0(0.5)	63.9(1.7)	23.5(1.5)	1.88(0.03)	
Food on the Frontier	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	1.6(0.7)	13.6(1.5)	71.4(1.7)*	12.8(1.3)*	0.6(0.4)	84.8(1.6)	13.4(1.3)*	1.97(0.03)	
1988	1.5(0.4)	8.7(1.2)*	75.7(1.6)*	13.7(1.1)*	0.5(0.2)	89.9(1.2)*	14.2(1.2)*	2.03(0.02)	
1990	1.1(0.3)	17.3(1.3)	63.1(1.4)	17.8(1.1)	0.7(0.2)	81.6(1.3)	18.5(1.2)	2.00(0.02)	
1992	1.2(0.3)	13.9(1.0)	68.0(1.3)*	16.1(1.0)*	0.7(0.2)	84.8(1.1)	16.8(1.1)*	2.01(0.02)	
1994	2.0(0.5)	17.3(1.3)	59.0(1.9)	20.1(1.3)	1.6(0.5)	80.7(1.4)	21.7(1.4)	2.02(0.02)	
Space Program	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	5.8(1.1)	14.6(1.8)*	54.7(2.4)*	23.6(1.8)*	1.3(0.4)	79.6(2.2)	24.8(1.8)*	2.00(0.04)	
1988	3.2(0.5)	17.5(1.5)	51.5(2.0)*	26.9(1.6)	1.0(0.3)*	79.4(1.6)	27.9(1.6)	2.05(0.03)	
1990	4.4(0.5)	13.6(1.0)*	54.3(1.3)*	26.5(1.3)	1.2(0.3)	81.9(1.0)*	27.6(1.3)	2.06(0.02)	
1992	3.1(0.5)	14.3(1.3)*	55.7(1.7)*	25.6(1.4)	1.3(0.3)	82.6(1.4)*	26.9(1.4)	2.08(0.03)	
1994	4.2(0.7)	20.0(1.2)	44.6(1.6)	28.9(1.1)	2.3(0.4)	75.8(1.5)	31.2(1.3)	2.05(0.03)	
Job Application	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	1.4(0.4)	14.4(1.7)	16.2(2.0)	65.4(2.1)	2.7(0.6)	84.3(1.6)	68.0(2.1)	2.54(0.03)	
1988	1.3(0.4)	12.8(0.8)*	17.5(1.4)	64.4(1.9)	4.1(0.9)	85.9(1.0)	68.4(1.7)	2.57(0.03)	
1990	1.3(0.3)	14.4(1.1)	16.8(1.3)	66.6(1.2)*	1.0(0.3)*	84.3(1.2)	67.5(1.2)	2.52(0.02)	
1992	0.3(0.2)	16.9(1.3)	11.4(0.9)*	70.9(1.4)*	0.6(0.2)*	82.8(1.3)	71.5(1.4)*	2.55(0.03)	
1994	0.5(0.2)	16.4(1.2)	19.3(1.5)	60.5(2.0)	3.3(0.5)	83.1(1.2)	63.8(1.9)	2.50(0.03)	
Appleby House	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	1.6(0.5)	10.0(1.3)	35.8(2.0)	50.5(1.7)	2.1(0.7)	88.3(1.3)	52.6(1.9)	2.41(0.03)	
1988	0.8(0.3)	8.9(1.1)	37.0(1.8)	52.0(2.1)	1.3(0.4)	90.3(1.2)	53.3(2.2)	2.44(0.03)	
1990	0.8(0.3)	8.7(0.9)	40.1(1.7)	48.8(1.7)	1.6(0.4)	90.5(0.9)	50.4(1.7)	2.42(0.02)	
1992	1.0(0.4)	9.5(1.0)	36.4(1.8)	50.9(2.1)	2.1(0.5)	89.4(1.0)	53.0(1.9)	2.44(0.03)	
1994	1.2(0.4)	10.3(1.0)	25.4(1.8)	59.6(1.9)	3.5(0.7)	88.5(1.2)	63.1(2.0)	2.54(0.03)	
Bike Lane	(0)	(1)	(2)	(3)	(4)	(2,3,4)	(3,4)	Mean	
1984	1.7(0.5)	30.7(1.8)*	42.7(2.7)	24.3(2.1)*	0.6(0.3)	67.6(1.7)*	24.9(2.1)*	1.91(0.03)*	
1988	0.9(0.4)	29.7(2.1)*	48.1(2.0)*	21.0(1.5)*	0.3(0.1)*	69.4(2.1)*	21.4(1.5)*	1.90(0.03)*	
1990	1.1(0.3)	35.1(1.2)*	43.7(1.2)*	18.9(0.9)*	1.3(0.4)	63.9(1.2)*	20.2(1.0)*	1.84(0.02)*	
1992	1.7(0.4)	33.7(1.4)*	43.1(1.5)*	19.8(1.3)*	1.7(0.4)	64.6(1.4)*	21.5(1.4)*	1.86(0.02)*	
1994	1.5(0.5)	48.2(1.7)	37.0(1.4)	11.2(1.2)	2.0(0.5)	50.2(1.7)	13.3(1.4)	1.64(0.03)	
HOLISTIC									
Food on the Frontier	(0)	(1)	(2)	(3)	(4)	(5)	(6)	(4,5,6)	Mean
1984	5.5(0.8)	2.4(0.6)	16.0(1.9)	35.4(1.9)	31.6(2.2)	8.8(1.2)	0.4(0.2)*	40.7(2.4)	3.13(0.06)
1988	2.4(0.5)	3.1(0.5)	16.4(1.3)	40.9(1.7)	27.8(1.9)	8.1(0.9)*	1.3(0.3)*	37.2(2.1)	3.18(0.04)
1990	3.7(0.7)	2.1(0.5)	14.9(1.3)	39.8(1.4)	28.3(1.4)	9.4(0.9)	1.8(0.4)	39.5(1.7)	3.22(0.04)
1992	3.0(0.5)	2.4(0.5)	16.8(1.2)	35.7(1.4)	26.3(1.4)	12.2(1.2)	3.6(0.6)	42.1(2.1)	3.31(0.05)
1994	4.4(0.7)	3.3(0.8)	15.3(1.2)	35.7(1.6)	26.1(1.4)	12.3(1.1)	2.9(0.5)	41.3(1.7)	3.24(0.05)
Recreation Opportunity	(0)	(1)	(2)	(3)	(4)	(5)	(6)	(4,5,6)	mean
1984	3.1(0.8)	1.8(0.6)	9.5(1.4)	32.0(1.8)*	43.0(2.0)*	8.9(1.6)	1.6(0.6)	53.6(2.0)*	3.43(0.05)
1988	1.0(0.3)*	2.9(0.8)	10.5(0.9)	35.4(1.7)*	39.4(1.6)	9.3(1.1)	1.5(0.3)	50.2(1.7)*	3.43(0.03)
1990	3.8(0.6)	2.9(0.6)	8.1(0.9)	32.5(1.4)*	41.0(1.4)*	9.6(0.8)*	2.0(0.6)	52.6(1.7)*	3.41(0.04)
1992	3.9(0.7)	1.8(0.4)	8.7(0.8)	34.4(1.4)*	41.0(1.3)*	9.1(0.7)*	1.1(0.3)	51.3(1.6)*	3.39(0.04)
1994	4.5(0.8)	2.1(0.5)	10.9(0.9)	41.4(1.6)	33.7(2.1)	5.9(0.9)	1.5(0.4)	41.1(2.0)	3.21(0.05)

* Significant difference from the 1994 result.
The standard errors appear in parenthesis.

