



APPENDIX TABLE 1-2 

Students in grades 4, 8, and 12 scoring at or above the main NAEP's proficient level in mathematics for their grade, by student grade and characteristics: 1990–2015

(Percent)

Student grade and characteristic	1990	1992	1996	2000	2003	2005	2007	2009	2011	2013	2015
All students in grade 4	12.7	17.9	20.8	23.8	32.5	36.3	39.4	39.1	40.5	41.8	40.0
Sex											
Male	13.2	19.5	21.5	25.9	34.9	38.4	41.5	40.9	41.8	43.0	41.7
Female	12.2	16.2	20.0	21.6	29.9	34.2	37.3	37.2	39.1	40.6	38.3
Race or ethnicity ^a											
White	15.9	22.4	27.0	31.3	42.9	47.2	50.9	50.7	52.1	53.7	50.8
Black	1.1	2.5	3.1	4.7	9.9	12.8	15.4	15.9	17.4	18.2	18.6
Hispanic ^b	4.8	5.6	7.2	7.2	15.6	19.5	22.0	21.6	23.9	26.4	26.2
Asian or Pacific Islander	22.4	27.7	27.2	s	48.3	54.6	58.4	60.3	62.1	63.5	62.2
American Indian or Alaska Native	s	s	10.1	8.2	16.8	20.9	24.8	21.2	22.4	23.5	23.0
More than one race	s	s	s	15.9	32.9	40.0	39.6	42.4	45.1	45.7	44.9
Socioeconomic status ^c											
Eligible for free or reduced-price lunch	NA	NA	7.5	7.6	15.2	19.1	21.5	21.7	23.9	25.5	24.4
Not eligible for free or reduced-price lunch	NA	NA	27.5	32.0	44.7	49.4	52.8	53.9	56.7	59.2	57.8
Student disability status ^d											
Has a disability	s	s	5.1	6.4	12.6	16.0	19.3	19.1	17.1	17.8	16.4
Does not have a disability	s	s	22.1	25.5	34.8	38.8	41.8	41.6	43.4	45.1	43.5
English language learner status ^d											
English language learner	s	s	4.2	3.8	9.3	11.4	12.9	12.0	13.8	14.1	14.5
Not English language learner	s	s	21.6	25.0	34.7	38.7	42.2	41.9	43.6	44.9	43.1
All students in grade 8	15.3	20.9	23.3	25.7	28.8	29.8	32.2	33.9	34.7	35.5	33.1
Sex											
Male	16.8	21.3	24.7	27.4	30.3	31.1	34.2	35.6	35.7	36.3	33.6
Female	13.7	20.6	21.8	23.9	27.1	28.4	30.2	32.1	33.7	34.7	32.7



Student grade and characteristic	1990	1992	1996	2000	2003	2005	2007	2009	2011	2013	2015
Race or ethnicity ^a											
White	18.2	26.0	30.2	33.8	37.5	38.6	41.8	43.6	44.4	45.1	42.7
Black	4.7	2.5	3.8	5.2	7.3	8.7	11.0	12.3	13.3	14.3	12.5
Hispanic ^b	7.0	6.8	7.8	8.4	11.7	13.4	15.4	17.2	20.3	21.1	19.3
Asian or Pacific Islander	28.9	43.3	s	40.6	43.0	47.3	49.6	53.8	55.3	59.8	58.7
American Indian or Alaska Native	s	s	s	9.8	14.6	13.9	16.3	18.2	17.1	21.1	19.6
More than one race	s	10.7	s	21.5	29.1	30.3	34.8	36.7	39.2	38.0	35.9
Parents' highest education											
Did not finish high school	3.3	6.2	7.0	7.6	9.0	10.9	12.2	14.5	14.9	15.8	14.0
Graduated from high school	8.5	9.9	12.8	14.9	16.7	17.0	18.8	19.2	19.9	19.4	17.5
Some education after high school	15.7	20.3	26.0	25.4	27.9	28.2	31.8	32.0	33.3	33.4	30.0
Graduated from college	23.9	32.8	33.8	38.3	40.2	41.9	44.4	46.9	47.4	48.2	45.8
Unknown	4.8	8.9	9.5	9.6	12.5	13.4	14.9	15.8	16.3	17.0	15.8
Socioeconomic status ^c											
Eligible for free or reduced-price lunch	NA	NA	8.5	9.4	12.1	13.4	15.4	16.7	18.8	19.6	18.0
Not eligible for free or reduced-price lunch	NA	NA	28.3	33.7	37.2	38.8	42.1	44.8	47.3	49.0	47.6
Student disability status ^d											
Has a disability	s	s	2.6	4.1	6.2	7.2	8.1	9.2	9.2	8.7	7.9
Does not have a disability	s	s	24.8	27.3	31.4	32.2	34.5	36.5	37.6	38.9	36.5
English language learner status ^d											
English language learner	s	s	1.5	2.0	4.7	5.9	7.0	5.0	5.0	5.3	5.7
Not English language learner	s	s	23.8	26.4	30.0	31.1	33.7	35.4	36.4	37.0	34.9
All students in grade 12	NA	NA	NA	NA	NA	23.0	NA	25.9	NA	25.7	24.5
Sex											
Male	NA	NA	NA	NA	NA	25.1	NA	28.3	NA	27.6	26.2
Female	NA	NA	NA	NA	NA	21.1	NA	23.5	NA	23.8	22.7
Race or ethnicity ^a											



Student grade and characteristic	1990	1992	1996	2000	2003	2005	2007	2009	2011	2013	2015
White	NA	NA	NA	NA	NA	28.9	NA	32.7	NA	33.2	31.7
Black	NA	NA	NA	NA	NA	5.6	NA	6.2	NA	7.1	7.1
Hispanic ^b	NA	NA	NA	NA	NA	8.1	NA	11.0	NA	11.8	11.9
Asian or Pacific Islander	NA	NA	NA	NA	NA	36.0	NA	51.8	NA	46.8	46.2
American Indian or Alaska Native	NA	NA	NA	NA	NA	6.1	NA	11.6	NA	12.5	9.9
More than one race	NA	NA	NA	NA	NA	18.9	NA	28.2	NA	25.7	30.6
Parents' highest education											
Did not finish high school	NA	NA	NA	NA	NA	6.9	NA	8.1	NA	9.1	7.1
Graduated from high school	NA	NA	NA	NA	NA	11.5	NA	13.9	NA	12.2	12.4
Some education after high school	NA	NA	NA	NA	NA	18.2	NA	19.0	NA	19.6	18.0
Graduated from college	NA	NA	NA	NA	NA	34.3	NA	38.0	NA	37.7	36.8
Unknown	NA	NA	NA	NA	NA	5.8	NA	7.9	NA	5.6	0.0
Socioeconomic status ^c											
Eligible for free or reduced-price lunch	NA	NA	NA	NA	NA	7.7	NA	10.2	NA	11.4	11.0
Not eligible for free or reduced-price lunch	NA	NA	NA	NA	NA	26.7	NA	31.9	NA	33.7	32.3
Student disability status ^d											
Has a disability	NA	NA	NA	NA	NA	4.5	NA	6.6	NA	5.9	5.7
Does not have a disability	NA	NA	NA	NA	NA	24.4	NA	27.5	NA	27.7	26.3
English language learner status ^d											
English language learner	NA	NA	NA	NA	NA	3.1	NA	4.0	NA	2.8	5.7
Not English language learner	NA	NA	NA	NA	NA	23.8	NA	26.6	NA	26.4	25.2

NA = not available; s = suppressed for reasons of confidentiality and/or reliability.

NAEP = National Assessment of Educational Progress.

^a Other racial and ethnic groups are included in the rows for All students in grade 4, All students in grade 8, and All students in grade 12 but are not shown separately in the table.

^b Hispanic may be any race. American Indian or Alaska Native, Asian or Pacific Islander, black, white, and more than one race refer to individuals who are not of Hispanic origin.



^c NAEP uses eligibility for the federal National School Lunch Program (NSLP) as a measure of socioeconomic status. NSLP is a federally assisted meal program that provides low-cost or free lunches to eligible students. It is sometimes referred to as the free or reduced-price lunch program. Information on students' eligibility for free or reduced-price lunch was first collected in 1996.

^d From 1996 on, students with a disability and English language learners were allowed to use testing accommodation (e.g., extended time, one-on-one testing, bilingual dictionary). More information about testing accommodation is available at <https://nces.ed.gov/nationsreportcard/about/inclusion.asp>.

Note(s)

From 1996 on, data shown here are for students allowed to use testing accommodation. Grade 12 mathematics data are presented from 2005, 2009, 2013, and 2015 only because the mathematics framework was substantially revised in 2005, making prior assessment results not comparable with those in or after 2005. Mathematics assessment was not conducted in 2007 and 2011 for grade 12.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2016) of main NAEP 1990, 1992, 1996, 2000, 2003, 2005, 2007, 2009, 2011, 2013, and 2015 mathematics assessments, National Center for Education Statistics.
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