

TABLE S1-3

Average scores of students in grades 4, 8, and 12 on the NAEP mathematics assessment, by student characteristics: 1990–2017

(Average score)

Student grade and characteristics	1990	1992	1996	2000	2003	2005	2007	2009	2011	2013	2015	2017
All students in grade 4	213	220	224	226	235	238	240	240	241	242	240	240
Sex												
Male	214	221	224	227	236	239	241	241	241	242	241	241
Female	213	219	223	224	233	237	239	239	240	241	239	239
Race or ethnicity ^a												
White	220	227	232	234	243	246	248	248	249	250	248	248
Black or African American	188	193	198	203	216	220	222	222	224	224	224	223
Hispanic or Latino ^b	200	202	207	208	222	226	227	227	229	231	230	229
Asian or Pacific Islander	225	231	229	s	246	251	253	255	256	258	257	258
American Indian or Alaska Native	s	s	217	208	223	226	228	225	225	227	227	227
More than one race	s	s	s	224	237	241	241	243	245	245	245	245
Socioeconomic status ^c												
Eligible for free or reduced-price lunch	NA	NA	207	208	222	225	227	227	229	230	229	228
Not eligible for free or reduced-price lunch	NA	NA	232	235	244	248	249	250	252	254	253	252
Student disability status ^d												
Has a disability	s	s	204	198	214	219	220	221	218	218	218	214
Does not have a disability	s	s	225	228	237	240	242	242	244	245	244	243
English language learner status ^d												
English language learner	s	s	201	199	214	216	217	218	219	219	218	217
Not English language learner	s	s	225	227	237	240	242	242	243	244	243	243
Percentiles ^e												
10th percentile	171	177	182	184	197	200	202	202	203	203	202	198
25th percentile	193	199	203	205	216	220	222	221	222	222	221	219
50th percentile	214	221	225	227	236	239	242	241	242	243	242	241
75th percentile	235	242	245	248	255	258	260	260	261	262	261	262
90th percentile	253	259	262	265	270	273	275	275	276	278	277	279
All students in grade 8	263	268	270	273	278	279	281	283	284	285	282	283
Sex												
Male	263	268	271	274	278	280	282	284	284	285	282	283
Female	262	269	269	272	277	278	280	282	283	284	282	282
Race or ethnicity ^a												
White	270	277	281	284	288	289	291	293	293	294	292	293
Black or African American	237	237	240	244	252	255	260	261	262	263	260	260
Hispanic or Latino ^b	246	249	251	253	259	262	265	266	270	272	270	269
Asian or Pacific Islander	275	290	s	288	291	295	297	301	303	306	306	310
American Indian or Alaska Native	s	s	s	259	263	264	264	266	265	269	267	267
More than one race	s	260	s	270	280	280	285	286	288	288	285	287
Parents' highest education ^f												
Did not finish high school	242	249	250	253	257	259	263	265	265	267	265	265
Graduated from high school	255	257	260	261	267	267	270	270	271	270	268	267
Some education after high school	267	271	277	277	280	280	283	284	285	285	282	281
Graduated from college	274	281	281	286	288	290	292	295	295	296	294	294
Unknown	241	252	252	254	259	260	263	264	265	266	263	264
Socioeconomic status ^c												
Eligible for free or reduced-price lunch	NA	NA	250	253	259	262	265	266	269	270	268	267
Not eligible for free or reduced-price lunch	NA	NA	277	283	287	288	291	294	296	297	296	296
Student disability status ^d												
Has a disability	s	s	231	230	242	245	246	249	250	249	247	247

TABLE S1-3

Average scores of students in grades 4, 8, and 12 on the NAEP mathematics assessment, by student characteristics: 1990–2017

(Average score)

Student grade and characteristics	1990	1992	1996	2000	2003	2005	2007	2009	2011	2013	2015	2017
Does not have a disability	s	s	273	276	282	283	285	287	288	289	287	288
English language learner status ^d												
English language learner	s	s	226	234	242	244	246	243	244	246	246	246
Not English language learner	s	s	272	274	279	281	283	285	286	287	284	285
Percentiles ^e												
10th percentile	215	221	221	223	230	231	235	236	237	237	235	233
25th percentile	239	243	245	249	254	255	258	259	260	261	258	256
50th percentile	264	269	273	275	279	280	283	284	285	286	283	283
75th percentile	288	294	297	300	303	304	306	308	309	310	308	310
90th percentile	307	315	316	320	323	324	327	329	329	331	329	333
All students in grade 12	NA	NA	NA	NA	NA	150	NA	153	NA	153	152	NA
Sex												
Male	NA	NA	NA	NA	NA	151	NA	155	NA	155	153	NA
Female	NA	NA	NA	NA	NA	149	NA	152	NA	152	150	NA
Race or ethnicity ^a												
White	NA	NA	NA	NA	NA	157	NA	161	NA	162	160	NA
Black or African American	NA	NA	NA	NA	NA	127	NA	131	NA	132	130	NA
Hispanic or Latino ^b	NA	NA	NA	NA	NA	133	NA	138	NA	141	139	NA
Asian or Pacific Islander	NA	NA	NA	NA	NA	163	NA	175	NA	172	170	NA
American Indian or Alaska Native	NA	NA	NA	NA	NA	134	NA	144	NA	142	138	NA
More than one race	NA	NA	NA	NA	NA	142	NA	158	NA	155	157	NA
Parents' highest education ^f												
Did not finish high school	NA	NA	NA	NA	NA	130	NA	135	NA	137	133	NA
Graduated from high school	NA	NA	NA	NA	NA	138	NA	142	NA	139	139	NA
Some education after high school	NA	NA	NA	NA	NA	148	NA	150	NA	152	149	NA
Graduated from college	NA	NA	NA	NA	NA	161	NA	164	NA	164	163	NA
Unknown	NA	NA	NA	NA	NA	123	NA	129	NA	127	125	NA
Socioeconomic status ^c												
Eligible for free or reduced-price lunch	NA	NA	NA	NA	NA	132	NA	137	NA	139	137	NA
Not eligible for free or reduced-price lunch	NA	NA	NA	NA	NA	155	NA	160	NA	162	160	NA
Student disability status ^d												
Has a disability	NA	NA	NA	NA	NA	114	NA	120	NA	119	118	NA
Does not have a disability	NA	NA	NA	NA	NA	153	NA	156	NA	157	155	NA
English language learner status ^d												
English language learner	NA	NA	NA	NA	NA	120	NA	117	NA	109	115	NA
Not English language learner	NA	NA	NA	NA	NA	151	NA	154	NA	155	153	NA
Percentiles ^e												
10th percentile	NA	NA	NA	NA	NA	105	NA	110	NA	111	107	NA
25th percentile	NA	NA	NA	NA	NA	127	NA	130	NA	131	128	NA
50th percentile	NA	NA	NA	NA	NA	151	NA	154	NA	154	152	NA
75th percentile	NA	NA	NA	NA	NA	174	NA	177	NA	177	175	NA
90th percentile	NA	NA	NA	NA	NA	194	NA	197	NA	197	196	NA

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; race categories exclude 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 often 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 accommodations (e.g., extended time, one-on-one testing, bilingual dictionary).

^e A percentile is a score location below which a specified percentage of the population falls.

^f Parents' highest level of education is defined by the highest level reported by eighth graders and twelfth graders for either parent. Fourth graders were not asked to indicate their parents' highest level of education because their responses in previous studies were highly variable, and a large percentage of them chose the "I don't know" option.

Note(s)

The scale for NAEP mathematics assessment scores is 0–500 for grades 4 and 8 and 0–300 for grade 12. From 1996 on, data shown here are for students allowed to use testing accommodations. NAEP does not collect parental education data for students in grade 4. 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 Center for Science and Engineering Statistics, National Science Foundation, special tabulations (2018) of the 1990–2017 NAEP mathematics assessments, National Center for Education Statistics, Department of Education.

Science and Engineering Indicators