APPENDIX TABLE 1-23 III

Highest-level mathematics course enrollment of high school completers, by student and family characteristics: 2013

(Percentage distribution)

Student and family characteristic	Algebra 1 or lower	Geometry	Algebra 2	Trigonometry or other	Pre- calculus	Calculus o
All students	2.9	7.8	24.4	23.8	21.8	19.
Sex						
Male	3.7	9.1	23.7	23.7	20.4	19
Female	2.2	6.5	25.1	24.0	23.2	19
Race or ethnicity						
White	3.1	6.6	22.2	22.2	23.9	21
Black	2.3	4.9	28.8	34.6	20.4	9
Hispanic ^a	3.0	13.2	26.8	23.5	18.9	14
Asian	0.7	2.4	10.3	13.6	22.7	50
Other ^b	2.8	10.7	43.8	15.7	12.6	14
Two or more races	3.1	8.1	30.8	25.1	17.8	15
SES ^C						
Lowest fifth	4.9	12.0	31.0	26.5	16.6	Ğ
Middle three-fifths	3.2	8.2	26.5	25.0	20.9	16
Highest fifth	0.5	3.3	11.6	18.9	28.9	36
Parents' highest education ^d						
Less than high school	6.5	14.3	27.4	24.2	16.6	11
High school diploma or equivalent	3.7	10.3	30.5	26.0	17.5	11
Associate's degree	3.5	8.6	28.4	24.7	21.8	13
Bachelor's degree or higher	1.3	4.1	15.4	21.7	26.5	31
Highest mathematics course in grade 9						
No mathematics	13.5	24.5	35.0	18.3	6.5	2

Student and family characteristic	Algebra 1 or lower	Geometry	Algebra 2	Trigonometry or other	Pre- calculus	Calculus or higher
Basic mathematics or pre-	21.4	20.9	33.5	15.5	5.1	3.6
Algebra 1	1.4	8.6	34.6	27.0	21.9	6.5
Above algebra 1	0.0	2.3	7.7	21.8	26.5	41.
Grade 9 mathematics achievement						
Lowest fifth	9.7	15.1	41.3	24.0	8.0	1.
Middle three-fifths	2.3	8.5	27.2	27.0	22.5	12.
Highest fifth	0.2	1.2	6.4	15.4	28.6	48.
Students' educational expectations in grade 9						
High school or less	8.1	13.7	34.2	27.4	11.9	4.
Some college	3.3	14.5	31.4	24.3	18.4	8
Bachelor's degree	1.8	6.0	23.6	23.2	26.3	19
Graduate or professional degree	1.1	4.2	19.0	22.8	25.0	27.
Don't know	4.6	11.1	28.4	24.3	17.7	13.
School						
Public	3.0	8.1	25.5	23.9	21.1	18
Private	0.9	1.5	9.3	23.0	32.0	33

SES = socioeconomic status.

Note(s)

Trigonometry or other includes trigonometry, probability and statistics, and other advanced mathematics. Calculus or higher includes calculus, Advanced Placement or International Baccalaureate (AP/IB) calculus, and other AP/IB mathematics.

^a Hispanic may be any race. Asian, black or African American, white, and other races refer to individuals who are not of Hispanic origin.

^b Other includes Alaska Native, American Indian, Native Hawaiian, Pacific Islander, more than one race, and those having origins in a race not listed.

^c SES is a composite variable derived from parental education level, parental occupation, and family income. The quintile measure divides the SES distribution into five equal quintile groups. Quintile 1 corresponds to the lowest one-fifth of the population, and quintile 5 corresponds to the highest. For this report, the middle three quintiles are combined into one category.

^d This refers to the highest level of education achieved by either parent.



Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2016) of High School Longitudinal Study of 2009 (HSLS:09), National Center for Education Statistics.

Science and Engineering Indicators 2018