



Appendix Table 1-9

Highest level mathematics course enrollment of students in grade 11, by student and family characteristics: 2012

(Percentage distribution)

Student and family characteristic	No math	Basic math	Algebra 1	Geometry 1	Algebra 2	Probability and statistics	Trigonometry and pre-calculus	Analytic geometry and calculus	Other advanced math
All students	11.3	3.1	4.6	12.1	33.5	2.7	23.5	3.8	5.5
Sex									
Male	11.5	3.4	5.0	13.5	32.7	2.2	21.9	4.1	5.8
Female	11.2	2.8	4.2	10.7	34.4	3.3	25.0	3.5	5.1
Race or ethnicity									
White	10.6	3.5	3.7	10.1	32.8	2.4	27.8	3.7	5.5
Black	15.7	2.6	5.6	11.3	35.1	3.7	15.7	2.3	8.0
Hispanic ^a	11.0	2.4	6.1	18.2	34.3	3.6	17.5	2.6	4.2
Asian	5.9	1.1	2.0	5.3	22.4	1.5	38.5	17.6	5.9
Other ^b	11.9	4.0	5.5	12.8	38.4	1.8	17.9	3.3	4.6
Parents' highest education ^c									
Less than high school	15.1	2.9	13.6	17.8	26.6	4.2	14.1	1.1	4.6
High school diploma or equivalent	14.5	4.3	5.8	14.7	34.3	1.8	17.3	2.1	5.1
Associate's degree	12.1	5.9	2.8	16.5	34.6	3.1	17.0	1.8	6.1
Bachelor's degree	10.6	2.9	3.8	12.4	37.1	3.1	20.5	3.1	6.5
Master's degree or higher	7.9	2.6	2.0	6.5	27.8	3.7	36.6	7.8	5.1
Highest mathematics course in grade 9									
No math	20.0	3.1	7.7	12.9	29.6	4.2	13.5	2.4	6.6
Basic math/pre-algebra	13.4	4.3	12.6	27.6	25.4	0.8	6.8	1.3	7.8



Student and family characteristic	No math	Basic math	Algebra 1	Geometry 1	Algebra 2	Probability and statistics	Trigonometry and pre-calculus	Analytic geometry and calculus	Other advanced math
Algebra 1	9.9	2.7	4.6	14.5	49.3	2.2	10.5	1.0	5.4
Above algebra 1	10.0	3.2	1.5	2.2	10.2	3.8	55.1	9.7	4.3
Pre-high school mathematics achievement									
Lowest fifth	16.6	4.6	12.3	21.4	30.7	2.1	5.9	1.5	5.0
Middle three-fifths	10.9	2.9	3.6	12.5	40.7	2.8	18.8	1.6	6.3
Highest fifth	7.3	2.1	0.7	1.8	16.9	3.0	52.8	12.0	3.5
Students' educational expectations in grade 9									
High school or less	14.0	3.7	9.0	19.8	35.7	2.2	8.3	1.4	6.1
Some college	13.7	4.9	6.7	14.8	38.0	2.5	13.4	1.5	4.5
Bachelor's degree	9.8	3.1	3.5	10.3	36.2	3.2	26.0	2.7	5.2
Graduate/professional degree	10.1	2.2	2.7	7.2	30.6	3.2	31.9	5.9	6.0
Don't know	11.9	3.4	5.8	16.6	36.3	1.8	17.3	2.3	4.7
Control of school in grade 12									
Public	11.6	3.1	4.6	12.5	33.6	2.8	22.4	3.6	5.7
Private	2.5	1.5	2.0	5.6	36.1	1.6	41.8	6.3	2.5
Socioeconomic status in grade 12 ^d									
Lowest fifth	15.7	3.8	8.2	16.3	32.8	2.5	13.0	1.8	6.1
Middle three-fifths	11.3	3.3	4.5	12.7	36.0	2.8	21.2	2.8	5.6
Highest fifth	7.4	1.9	1.4	6.5	27.2	2.9	39.7	8.3	4.6

^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 The highest level of education achieved by either parent.



^d Socioeconomic status (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.

NOTE: Percentages may not add to total because of rounding.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2014) of High School Longitudinal Study of 2009 (HSL:09), National Center for Education Statistics.
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