## APPENDIX TABLE 1-23 囲

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 | calculus | Calculus or higher |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All students | 2.9 | 7.8 | 24.4 | 23.8 | 21.8 | 19.3 |
| Sex |  |  |  |  |  |  |
| Male | 3.7 | 9.1 | 23.7 | 23.7 | 20.4 | 19.5 |
| Female | 2.2 | 6.5 | 25.1 | 24.0 | 23.2 | 19.2 |
| Race or ethnicity |  |  |  |  |  |  |
| White | 3.1 | 6.6 | 22.2 | 22.2 | 23.9 | 21.9 |
| Black | 2.3 | 4.9 | 28.8 | 34.6 | 20.4 | 9.0 |
| Hispanic ${ }^{\text {a }}$ | 3.0 | 13.2 | 26.8 | 23.5 | 18.9 | 14.6 |
| Asian | 0.7 | 2.4 | 10.3 | 13.6 | 22.7 | 50.3 |
| Other ${ }^{\text {b }}$ | 2.8 | 10.7 | 43.8 | 15.7 | 12.6 | 14.3 |
| Two or more races | 3.1 | 8.1 | 30.8 | 25.1 | 17.8 | 15.1 |
| SES ${ }^{\text {c }}$ |  |  |  |  |  |  |
| Lowest fifth | 4.9 | 12.0 | 31.0 | 26.5 | 16.6 | 9.0 |
| Middle three-fifths | 3.2 | 8.2 | 26.5 | 25.0 | 20.9 | 16.2 |
| Highest fifth | 0.5 | 3.3 | 11.6 | 18.9 | 28.9 | 36.7 |
| Parents' highest education ${ }^{\text {d }}$ |  |  |  |  |  |  |
| Less than high school | 6.5 | 14.3 | 27.4 | 24.2 | 16.6 | 11.0 |
| High school diploma or equivalent | 3.7 | 10.3 | 30.5 | 26.0 | 17.5 | 11.9 |
| Associate's degree | 3.5 | 8.6 | 28.4 | 24.7 | 21.8 | 13.0 |
| Bachelor's degree or higher | 1.3 | 4.1 | 15.4 | 21.7 | 26.5 | 31.0 |
| Highest mathematics course in grade 9 |  |  |  |  |  |  |
| No mathematics | 13.5 | 24.5 | 35.0 | 18.3 | 6.5 | 2.3 |


| Student and family characteristic | Algebra 1 or lower | Geometry | Algebra $2$ | Trigonometry or other | Precalculus | Calculus or higher |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Basic mathematics or prealgebra | 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 | 41.7 |
| Grade 9 mathematics achievement |  |  |  |  |  |  |
| Lowest fifth | 9.7 | 15.1 | 41.3 | 24.0 | 8.0 | 1.8 |
| Middle three-fifths | 2.3 | 8.5 | 27.2 | 27.0 | 22.5 | 12.5 |
| Highest fifth | 0.2 | 1.2 | 6.4 | 15.4 | 28.6 | 48.2 |
| Students' educational expectations in grade 9 |  |  |  |  |  |  |
| High school or less | 8.1 | 13.7 | 34.2 | 27.4 | 11.9 | 4.7 |
| Some college | 3.3 | 14.5 | 31.4 | 24.3 | 18.4 | 8.2 |
| Bachelor's degree | 1.8 | 6.0 | 23.6 | 23.2 | 26.3 | 19.1 |
| Graduate or professional degree | 1.1 | 4.2 | 19.0 | 22.8 | 25.0 | 27.8 |
| Don't know | 4.6 | 11.1 | 28.4 | 24.3 | 17.7 | 13.8 |
| School |  |  |  |  |  |  |
| Public | 3.0 | 8.1 | 25.5 | 23.9 | 21.1 | 18.4 |
| Private | 0.9 | 1.5 | 9.3 | 23.0 | 32.0 | 33.3 |

SES = socioeconomic status.
a Hispanic may be any race. Asian, black or African American, white, and other races refer to individuals who are not of Hispanic origin.
${ }^{\text {b }}$ Other includes Alaska Native, American Indian, Native Hawaiian, Pacific Islander, more than one race, and those having origins in a race not listed.
${ }^{\text {c }}$ 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.

## 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.

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## 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.

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