

Appendix table 1-9

**High school graduates completing advanced mathematics courses, by student and school characteristics and subject: Selected years, 1990–2005**

(Percent)

Student characteristic	Trigonometry or algebra III	Precalculus or analysis	Statistics or probability	Calculus	
				Any	AP/IB
1990 graduates .....	20.2	13.5	1.0	7.1	4.4
1994 graduates .....	23.6	17.3	2.0	10.2	7.6
2000 graduates .....	19.3	26.5	5.7	12.5	8.4
2005 graduates .....	19.2	29.2	7.7	14.3	9.7
Sex					
Male .....	17.9	27.6	7.7	14.6	10.2
Female .....	20.4	30.6	7.8	14.0	9.3
Race/ethnicity					
White .....	21.0	31.7	8.5	16.0	10.7
Black .....	17.9	17.8	5.7	5.9	3.2
Hispanic .....	9.3	20.1	3.4	7.2	5.6
Asian/Pacific Islander .....	18.9	48.1	12.9	31.1	25.3
Other .....	22.8	22.4	7.0	13.3	8.0
School sector					
Public .....	18.1	27.5	7.6	13.2	9.2
Private .....	28.8	44.6	8.3	24.6	14.9
Community type					
Urban .....	18.9	30.6	7.1	15.1	12.4
Suburban .....	18.4	32.1	9.1	15.1	10.0
Rural .....	20.7	22.7	6.0	12.1	6.7
Size (enrollment)					
Small (1–599) .....	17.4	23.8	3.6	12.0	5.9
Medium (600–1,799) .....	22.5	31.1	7.5	14.9	10.0
Large ( $\geq 1,800$ ) .....	15.4	30.3	11.1	14.0	11.4
Poverty rate <sup>a</sup>					
Very low .....	26.2	45.8	12.0	22.7	13.8
Low .....	17.1	31.2	9.9	15.4	11.4
Medium .....	19.0	23.2	6.6	11.4	7.7
High .....	16.8	18.6	3.1	6.8	5.0

AP = Advanced Placement

IB = International Baccalaureate

<sup>a</sup>Students eligible for national free/reduced-priced lunch program: very low =  $\leq 5\%$ , low = 6–25%, medium = 26–50%, and high = 51–100%.NOTES: AP/IB calculus courses appear in two columns: alone in their specific column and along with other calculus courses in “any” column. Slight differences in pre-2005 data from earlier editions of *Science and Engineering Indicators* result from minor refinements in defining graduates and some course categories. For information on courses and coding, see <http://nces.ed.gov/surveys/hst/courses.asp>, accessed 12 March 2007.

SOURCES: National Center for Education Statistics, National Assessment of Educational Progress, 1990, 1994, 2000, and 2005 High School Transcript Studies; and National Science Foundation, Division of Science Resources Statistics, special tabulations.