

**Table 125.—Percent of students at or above selected mathematics proficiency levels, by sex, race/ethnicity, control of school, and age: 1978 to 1999**

| Sex, race/ethnicity, control, and year | 9-year-olds <sup>1</sup>             |   |   |  | 13-year-olds <sup>2</sup>                       |   |  |   | 17-year-olds <sup>2</sup>                       |   |  |   |
|--|--------------------------------------|---|---|--|---|---|--|---|---|---|--|---|
|  | Simple arithmetic facts <sup>3</sup> | Beginning skills and understanding <sup>4</sup> | Numerical operations and beginning problem solving <sup>5</sup> | Moderately complex procedures and reasoning <sup>6</sup> | Beginning skills and understanding <sup>4</sup> | Numerical operations and beginning problem solving <sup>5</sup> | Moderately complex procedures and reasoning <sup>6</sup> | Multi-step problem solving and algebra <sup>7</sup> | Beginning skills and understanding <sup>4</sup> | Numerical operations and beginning problem solving <sup>5</sup> | Moderately complex procedures and reasoning <sup>6</sup> | Multi-step problem solving and algebra <sup>7</sup> |
| 1                                      | 2                                    | 3   | 4   | 5  | 6   | 7   | 8  | 9   | 10  | 11  | 12   | 13  |
| <b>Total</b>                           |                                      |   |   |  |   |   |  |   |   |   |  |   |
| 1978 .....                             | 96.7 (0.3)                           | 70.4 (0.9)                                      | 19.6 (0.7)  | 0.8 (0.1)  | 94.6 (0.5)                                      | 64.9 (1.2)  | 18.0 (0.7)   | 1.0 (0.2)   | 99.8 (0.1)                                      | 92.0 (0.5)  | 51.5 (1.1)   | 7.3 (0.4)   |
| 1982 .....                             | 97.1 (0.3)                           | 71.4 (1.2)                                      | 18.8 (1.0)  | 0.6 (0.1)  | 97.7 (0.4)                                      | 71.4 (1.2)  | 17.4 (0.9)   | 0.5 (0.1)   | 99.9 (0.0)                                      | 93.0 (0.5)  | 48.5 (1.3)   | 5.5 (0.4)   |
| 1986 .....                             | 97.9 (0.3)                           | 74.1 (1.2)                                      | 20.7 (0.9)  | 0.6 (0.2)  | 98.6 (0.2)                                      | 73.3 (1.6)  | 15.8 (1.0)   | 0.4 (0.1)   | 99.9 —  | 95.6 (0.5)  | 51.7 (1.4)   | 6.5 (0.5)   |
| 1990 .....                             | 99.1 (0.2)                           | 81.5 (1.0)                                      | 27.7 (0.9)  | 1.2 (0.3)  | 98.5 (0.2)                                      | 74.7 (1.0)  | 17.3 (1.0)   | 0.4 (0.1)   | 100.0 —   | 96.0 (0.5)  | 56.1 (1.4)   | 7.2 (0.6)   |
| 1992 .....                             | 99.0 (0.2)                           | 81.4 (0.8)                                      | 27.8 (0.9)  | 1.2 (0.3)  | 98.7 (0.3)                                      | 77.9 (1.1)  | 18.9 (1.0)   | 0.4 (0.2)   | 100.0 —   | 96.6 (0.5)  | 59.1 (1.3)   | 7.2 (0.6)   |
| 1994 .....                             | 99.0 (0.2)                           | 82.0 (0.7)                                      | 29.9 (1.1)  | 1.3 (0.4)  | 98.5 (0.3)                                      | 78.1 (1.1)  | 21.3 (1.4)   | 0.6 (0.2)   | 100.0 —   | 96.5 (0.5)  | 58.6 (1.4)   | 7.4 (0.8)   |
| 1996 .....                             | 99.1 (0.2)                           | 81.5 (0.8)                                      | 29.7 (1.0)  | 1.6 (0.3)  | 98.8 (0.2)                                      | 78.6 (0.9)  | 20.6 (1.2)   | 0.6 (0.1)   | 100.0 —   | 96.8 (0.4)  | 60.1 (1.7)   | 7.4 (0.8)   |
| 1999 .....                             | 98.9 (0.2)                           | 82.5 (0.8)                                      | 30.9 (1.1)  | 1.7 (0.3)  | 98.7 (0.2)                                      | 78.8 (1.0)  | 23.2 (1.0)   | 0.9 (0.2)   | 100.0 —   | 96.8 (0.5)  | 60.7 (1.6)   | 8.4 (0.8)   |
| <b>Male</b>                            |                                      |   |   |  |   |   |  |   |   |   |  |   |
| 1978 .....                             | 96.2 (0.5)                           | 68.9 (1.0)                                      | 19.2 (0.6)  | 0.7 (0.2)  | 93.9 (0.5)                                      | 63.9 (1.3)  | 18.4 (0.9)   | 1.1 (0.2)   | 99.9 (0.1)                                      | 93.0 (0.5)  | 55.1 (1.2)   | 9.5 (0.6)   |
| 1982 .....                             | 96.5 (0.5)                           | 68.8 (1.3)                                      | 18.1 (1.1)  | 0.6 (0.1)  | 97.5 (0.6)                                      | 71.3 (1.4)  | 18.9 (1.2)   | 0.7 (0.2)   | 100.0 —   | 93.9 (0.6)  | 51.9 (1.5)   | 6.9 (0.7)   |
| 1986 .....                             | 98.0 (0.5)                           | 74.0 (1.4)                                      | 20.9 (1.1)  | 0.7 (0.3)  | 98.5 (0.3)                                      | 73.8 (1.8)  | 17.6 (1.1)   | 0.5 (0.2)   | 99.9 —  | 96.1 (0.6)  | 54.6 (1.8)   | 8.4 (0.9)   |
| 1990 .....                             | 99.0 (0.3)                           | 80.6 (1.0)                                      | 27.5 (1.0)  | 1.3 (0.4)  | 98.2 (0.3)                                      | 75.1 (1.8)  | 19.0 (1.2)   | 0.5 (0.2)   | 99.9 —  | 95.8 (0.8)  | 57.6 (1.4)   | 8.8 (0.8)   |
| 1992 .....                             | 99.0 (0.3)                           | 81.9 (1.0)                                      | 29.4 (1.2)  | 1.4 (0.3)  | 98.8 (0.4)                                      | 78.1 (1.6)  | 20.7 (1.1)   | 0.5 (0.2)   | 100.0 —   | 96.9 (0.6)  | 60.5 (1.8)   | 9.1 (0.7)   |
| 1994 .....                             | 99.1 (0.3)                           | 82.3 (0.9)                                      | 31.5 (1.6)  | 1.4 (0.4)  | 98.3 (0.4)                                      | 78.9 (1.5)  | 23.9 (1.6)   | 0.8 (0.3)   | 100.0 —   | 97.3 (0.6)  | 60.2 (2.1)   | 9.3 (1.0)   |
| 1996 .....                             | 99.1 (0.2)                           | 82.5 (1.1)                                      | 32.7 (1.7)  | 2.0 (0.5)  | 98.7 (0.3)                                      | 79.8 (1.4)  | 23.0 (1.6)   | 0.8 (0.2)   | 100.0 —   | 97.0 (0.7)  | 62.7 (1.8)   | 9.5 (1.3)   |
| 1999 .....                             | 98.8 (0.3)                           | 82.6 (0.9)                                      | 32.4 (1.3)  | 1.9 (0.4)  | 98.5 (0.3)                                      | 79.3 (1.1)  | 25.4 (1.2)   | 1.2 (0.2)   | 100.0 —   | 96.5 (0.8)  | 63.1 (2.1)   | 9.8 (1.1)   |
| <b>Female</b>                          |                                      |   |   |  |   |   |  |   |   |   |  |   |
| 1978 .....                             | 97.2 (0.3)                           | 72.0 (1.1)                                      | 19.9 (1.0)  | 0.8 (0.2)  | 95.2 (0.5)                                      | 65.9 (1.2)  | 17.5 (0.7)   | 0.9 (0.2)   | 99.7 (0.1)                                      | 91.0 (0.6)  | 48.2 (1.3)   | 5.2 (0.7)   |
| 1982 .....                             | 97.6 (0.3)                           | 74.0 (1.3)                                      | 19.6 (1.1)  | 0.5 (0.1)  | 98.0 (0.3)                                      | 71.4 (1.3)  | 15.9 (1.0)   | 0.4 (0.2)   | 99.9 (0.0)                                      | 92.1 (0.6)  | 45.3 (1.4)   | 4.1 (0.4)   |
| 1986 .....                             | 97.8 (0.4)                           | 74.3 (1.3)                                      | 20.6 (1.3)  | 0.6 (0.3)  | 98.6 (0.3)                                      | 72.7 (1.9)  | 14.1 (1.3)   | 0.3 (0.1)   | 100.0 —   | 95.1 (0.7)  | 48.9 (1.7)   | 4.7 (0.6)   |
| 1990 .....                             | 99.1 (0.3)                           | 82.3 (1.3)                                      | 27.9 (1.3)  | 1.0 (0.3)  | 98.9 (0.2)                                      | 74.4 (1.3)  | 15.7 (1.0)   | 0.2 (0.1)   | 100.0 —   | 96.2 (0.8)  | 54.7 (1.8)   | 5.6 (0.8)   |
| 1992 .....                             | 99.0 (0.3)                           | 80.9 (1.1)                                      | 26.3 (1.5)  | 1.0 (0.4)  | 98.6 (0.2)                                      | 77.7 (1.1)  | 17.2 (1.4)   | 0.3 —   | 100.0 —   | 96.3 (0.8)  | 57.7 (1.6)   | 5.2 (0.8)   |
| 1994 .....                             | 98.9 (0.3)                           | 81.7 (0.9)                                      | 28.3 (1.3)  | 1.1 (0.4)  | 98.7 (0.3)                                      | 77.3 (1.0)  | 18.7 (1.4)   | 0.5 (0.3)   | 100.0 —   | 96.0 (0.6)  | 57.2 (1.4)   | 5.5 (0.9)   |
| 1996 .....                             | 99.1 (0.4)                           | 80.7 (0.9)                                      | 26.7 (1.1)  | 1.2 (0.4)  | 98.8 (0.3)                                      | 77.4 (1.1)  | 18.4 (1.5)   | 0.5 (0.2)   | 100.0 —   | 96.7 (0.6)  | 57.6 (2.2)   | 5.3 (0.8)   |
| 1999 .....                             | 99.0 (0.2)                           | 82.5 (1.2)                                      | 29.4 (1.4)  | 1.6 (0.4)  | 99.0 (0.4)                                      | 78.4 (1.2)  | 21.0 (1.4)   | 0.6 (0.3)   | 100.0 —   | 97.2 (0.4)  | 58.5 (1.9)   | 7.1 (1.1)   |
| <b>White, non-Hispanic</b>             |                                      |   |   |  |   |   |  |   |   |   |  |   |
| 1978 .....                             | 98.3 (0.2)                           | 76.3 (1.0)                                      | 22.9 (0.9)  | 0.9 (0.2)  | 97.6 (0.3)                                      | 72.9 (0.9)  | 21.4 (0.7)   | 1.2 (0.2)   | 100.0 —   | 95.6 (0.3)  | 57.6 (1.1)   | 8.5 (0.5)   |
| 1982 .....                             | 98.5 (0.3)                           | 76.8 (1.2)                                      | 21.8 (1.1)  | 0.6 (0.1)  | 99.1 (0.1)                                      | 78.3 (0.9)  | 20.5 (1.0)   | 0.6 (0.1)   | 100.0 —   | 96.2 (0.3)  | 54.7 (1.4)   | 6.4 (0.5)   |
| 1986 .....                             | 98.8 (0.2)                           | 79.6 (1.3)                                      | 24.6 (1.0)  | 0.8 (0.3)  | 99.3 (0.3)                                      | 78.9 (1.7)  | 18.6 (1.2)   | 0.4 (0.1)   | 100.0 —   | 98.0 (0.4)  | 59.1 (1.7)   | 7.9 (0.7)   |
| 1990 .....                             | 99.6 (0.2)                           | 86.9 (0.9)                                      | 32.7 (1.0)  | 1.5 (0.4)  | 99.4 (0.1)                                      | 82.0 (1.0)  | 21.0 (1.2)   | 0.4 (0.2)   | 100.0 —   | 97.6 (0.3)  | 63.2 (1.6)   | 8.3 (0.7)   |
| 1992 .....                             | 99.6 (0.1)                           | 86.9 (0.7)                                      | 32.4 (1.0)  | 1.4 (0.3)  | 99.6 (0.2)                                      | 84.9 (1.1)  | 22.8 (1.3)   | 0.4 (0.2)   | 100.0 —   | 98.3 (0.4)  | 66.4 (1.4)   | 8.7 (0.9)   |
| 1994 .....                             | 99.6 (0.2)                           | 87.0 (0.8)                                      | 35.3 (1.3)  | 1.5 (0.4)  | 99.3 (0.2)                                      | 85.5 (0.9)  | 25.6 (1.6)   | 0.7 (0.3)   | 100.0 —   | 98.4 (0.4)  | 67.0 (1.4)   | 9.4 (1.1)   |
| 1996 .....                             | 99.6 (0.1)                           | 86.6 (0.8)                                      | 35.7 (1.4)  | 2.0 (0.4)  | 99.6 (0.2)                                      | 86.4 (1.0)  | 25.4 (1.5)   | 0.8 (0.2)   | 100.0 —   | 98.7 (0.4)  | 68.7 (2.2)   | 9.2 (1.0)   |
| 1999 .....                             | 99.6 (0.1)                           | 88.6 (0.8)                                      | 37.1 (1.4)  | 2.2 (0.4)  | 99.4 (0.3)                                      | 86.7 (0.9)  | 29.0 (1.3)   | 1.2 (0.3)   | 100.0 —   | 98.7 (0.4)  | 69.9 (2.0)   | 10.4 (1.1)  |
| <b>Black, non-Hispanic</b>             |                                      |   |   |  |   |   |  |   |   |   |  |   |
| 1978 .....                             | 88.4 (1.0)                           | 42.0 (1.4)                                      | 4.1 (0.6)   | 0.0 —  | 79.7 (1.5)                                      | 28.7 (2.1)  | 2.3 (0.5)  | 0.0 —   | 98.8 (0.3)                                      | 70.7 (1.7)  | 16.8 (1.6)   | 0.5 (0.2)   |
| 1982 .....                             | 90.2 (1.0)                           | 46.1 (2.4)                                      | 4.4 (0.8)   | 0.0 —  | 90.2 (1.6)                                      | 37.9 (2.5)  | 2.9 (1.0)  | 0.0 —   | 99.7 (0.2)                                      | 76.4 (1.5)  | 17.1 (1.5)   | 0.5 (0.3)   |
| 1986 .....                             | 93.9 (1.4)                           | 53.4 (2.5)                                      | 5.6 (0.9)   | 0.1 —  | 95.4 (0.9)                                      | 49.0 (3.7)  | 4.0 (1.4)  | 0.1 —   | 100.0 —   | 85.6 (2.5)  | 20.8 (2.8)   | 0.2 —   |
| 1990 .....                             | 96.9 (0.9)                           | 60.0 (2.8)                                      | 9.4 (1.7)   | 0.1 —  | 95.4 (1.1)                                      | 48.7 (3.6)  | 3.9 (1.6)  | 0.1 —   | 99.9 —  | 92.4 (2.2)  | 32.8 (4.5)   | 2.0 (1.0)   |
| 1992 .....                             | 96.6 (1.1)                           | 59.8 (2.8)                                      | 9.6 (1.4)   | 0.1 —  | 95.0 (1.4)                                      | 51.0 (2.7)  | 4.0 (0.7)  | 0.1 —   | 100.0 —   | 89.6 (2.5)  | 29.8 (3.9)   | 0.9 —   |
| 1994 .....                             | 97.4 (1.0)                           | 65.9 (2.6)                                      | 11.1 (1.7)  | 0.0 —  | 95.6 (1.6)                                      | 51.0 (3.9)  | 6.4 (2.4)  | 0.3 —   | 100.0 —   | 90.6 (1.8)  | 29.8 (3.4)   | 0.4 —   |
| 1996 .....                             | 97.3 (0.8)                           | 65.3 (2.4)                                      | 10.0 (1.2)  | 0.1 —  | 96.2 (1.3)                                      | 53.7 (2.6)  | 4.8 (1.1)  | 0.1 —   | 100.0 —   | 90.6 (1.3)  | 31.2 (2.5)   | 0.9 —   |
| 1999 .....                             | 96.4 (0.6)                           | 63.3 (2.1)                                      | 12.3 (1.5)  | 0.2 —  | 96.5 (1.1)                                      | 50.8 (4.0)  | 4.4 (1.4)  | 0.0 —   | 99.9 —  | 88.6 (2.0)  | 26.6 (2.7)   | 1.0 —   |
| <b>Hispanic</b>                        |                                      |   |   |  |   |   |  |   |   |   |  |   |
| 1978 .....                             | 93.0 (1.2)                           | 54.2 (2.8)                                      | 9.2 (2.5)   | 0.2 —  | 86.4 (0.9)                                      | 36.0 (2.9)  | 4.0 (1.0)  | 0.1 —   | 99.3 (0.4)                                      | 78.3 (2.3)  | 23.4 (2.7)   | 1.4 (0.6)   |
| 1982 .....                             | 94.3 (1.2)                           | 55.7 (2.3)                                      | 7.8 (1.7)   | 0.0 —  | 95.9 (0.9)                                      | 52.2 (2.5)  | 6.3 (1.0)  | 0.0 —   | 99.8 —  | 81.4 (1.9)  | 21.6 (2.2)   | 0.7 (0.4)   |
| 1986 .....                             | 96.4 (1.3)                           | 57.6 (2.9)                                      | 7.3 (2.8)   | 0.1 —  | 96.9 (1.4)                                      | 56.0 (5.0)  | 5.5 (1.1)  | 0.2 —   | 99.4 —  | 89.3 (2.5)  | 26.5 (4.5)   | 1.1 —   |
| 1990 .....                             | 98.0 (0.8)                           | 68.4 (3.0)                                      | 11.3 (3.5)  | 0.2 —  | 96.8 (1.1)                                      | 56.7 (3.3)  | 6.4 (1.7)  | 0.1 —   | 99.6 —  | 85.8 (4.2)  | 30.1 (3.1)   | 1.9 (0.8)   |
| 1992 .....                             | 97.2 (1.3)                           | 65.0 (2.9)                                      | 11.7 (2.5)  | 0.1 —  | 98.1 (0.7)                                      | 63.3 (2.7)  | 7.0 (1.2)  | 0.0 —   | 100.0 —   | 94.1 (2.2)  | 39.2 (4.9)   | 1.2 —   |
| 1994 .....                             | 97.2 (1.2)                           | 63.5 (3.1)                                      | 9.7 (1.8)   | 0.0 —  | 97.1 (1.3)                                      | 59.2 (2.2)  | 6.4 (1.8)  | 0.0 —   | 100.0 —   | 91.8 (3.6)  | 38.3 (5.5)   | 1.4 —   |
| 1996 .....                             | 98.1 (0.7)                           | 67.1 (2.1)                                      | 13.8 (2.3)  | 0.2 —  | 96.2 (0.8)                                      | 58.3 (2.3)  | 6.7 (1.2)  | 0.0 —   | 99.9 —  | 92.2 (2.2)  | 40.1 (3.5)   | 1.8 —   |
| 1999 .....                             | 98.1 (0.7)                           | 67.5 (2.5)                                      | 10.5 (1.6)  | 0.1 —  | 97.2 (0.6)                                      | 62.9 (2.5)  | 8.2 (1.4)  | 0.1 —   | 99.9 —  | 93.6 (2.2)  | 37.7 (4.1)   | 3.1 (1.1)   |
| <b>Public</b>                          |                                      |   |   |  |   |   |  |   |   |   |  |   |
| 1978 .....                             | 96.4 (0.3)                           | 68.8 (0.9)                                      | 18.5 (0.7)  | 0.7 (0.2)  | 94.1 (0.5)                                      | 63.3 (1.2)  | 17.0 (0.8)   | 0.9 (0.2)   | 99.8 (0.1)                                      | 91.7 (0.5)  | 50.6 (1.2)   | 7.0 (0.4)   |
| 1982 .....                             | 96.8 (0.4)                           | 69.4 (1.2)                                      | 17.3 (0.9)  | 0.5 (0.1)  | 97.5 (0.4)                                      | 69.7 (1.3)  | 16.4 (1.0)   | 0.5 (0.1)   | 99.9 (0.0)                                      | 92.5 (0.6)  | 46.9 (1.3)   | 5.2 (0.4)   |
| 1986 .....                             | 97.7 (0.3)                           | 72.7 (1.4)                                      | 19.1 (1.1)  | 0.6 (0.2)  | 98.5 (0.3)                                      | 72.9 (1.7)  | 15.6 (1.0)   | 0.4 (0.1)   | 99.9 —  | 95.5 (0.5)  | 50.7 (1.6)   | 6.1 (0.5)   |
| 1990 .....                             | 99.0 (0.2)                           | 80.5 (1.1)                                      | 26.8 (1.0)  | 1.1 (0.3)  | 98.4 (0.2)                                      | 73.3 (1.2)  | 16.7 (1.1)   | 0.3 (0.1)   | 100.0 —   | 95.8 (0.6)  | 55.0 (1.3)   | 6.5 (0.5)   |
| 1992 .....                             | 98.8 (0.3)                           | 79.7 (0.9)                                      | 26.1 (0.9)  | 1.1 (0.3)  | 98.5 (0.3)                                      | 76.3 (1.2)  | 18.0 (1.0)   | 0.3 (0.2)   | 100.0 —   | 96.3 (0.6)  | 56.9 (1.2)   | 6.7 (0.7)   |
| 1994 .....                             | 98.9 (0.3)                           | 80.6 (0.8)                                      | 27.9 (1.2)  | 1.1 (0.4)  | 98.5 (0.3)                                      | 76.7 (1.2)  | 20.0 (1.4)   | 0.6 (0.2)   | 100.0 —   | 96.2 (0.5)  | 56.2 (1.3)   | 6.4 (0.7)   |
| 1996 .....                             | 99.0 (0.2)                           | 80.7 (0.8)                                      | 28.3 (1.1)  | 1.5 (0.3)  | 98.6 (0.2)                                      | 77.2 (0.9)  | 19.2 (1.3)   | 0.6 (0.1)   | 100.0 —   | 96.7 (0.5)  | 59.0 (1.8)   | 7.1 (0.7)   |
| 1999 .....                             | 98.8 (0.2)                           | 81.4 (1.0)                                      | 29.4 (1.2)  | 1.6 (0.3)  | 98.7 (0.2)                                      | 77.3 (1.3)  | 21.6 (1.3)   | 0.8 (0.2)   | 100.0 —   | 96.4 (0.5)  | 58.6 (1.6)   | 7.9 (0.7)   |
| <b>Private</b>                         |                                      |   |   |  |   |   |  |   |   |   |  |   |
| 1978 .....                             | 99.0 —                               | 83.3 (1.9)                                      | 28.4 (2.0)  | 1.2 (0.4)  | 99.0 (0.4)                                      | 80.8 (1.7)  | 26.9 (1.8)   | 1.4 (0.4)   | 100.0 —   | 97.1 (0.6   |  |   |