Appendix table 1-1
First-time kindergartners demonstrating specific mathematics skills and knowledge, by child and family characteristics: Fall 1998 and spring 1999
(Percent)

| Child and family characteristic | Number and shape |  |  | Relative size |  |  | Ordinality and sequence |  |  | Add and subtract |  |  | Multiply and divide |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fall | Spring | Change | Fall | Spring | Change | Fall | Spring | Change | Fall | Spring | Change | Fall | Spring | Change |
| All students.............................. | 93 | 99 | 6 | 57 | 87 | 30 | 21 | 56 | 36 | 4 | 18 | 14 | - | 2 | 2 |
| Sex |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male............................... | 92 | 99 | 6 | 55 | 86 | 31 | 22 | 56 | 34 | 4 | 19 | 14 | 1 | 3 | 2 |
| Female. | 94 | 99 | 5 | 58 | 87 | 30 | 20 | 57 | 37 | 3 | 17 | 14 | - | 2 | 1 |
| Race/ethnicity |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| White, non-Hispanic ............. | 96 | 99 | 4 | 64 | 91 | 27 | 26 | 64 | 38 | 5 | 22 | 17 | - | 3 | 3 |
| Black, non-Hispanic............... | 89 | 98 | 9 | 41 | 76 | 35 | 9 | 37 | 28 | 1 | 8 | 7 | - | - | - |
| Asian/Pacific Islander ............ | 97 | 100 | 3 | 68 | 92 | 24 | 32 | 68 | 36 | 9 | 28 | 19 | 1 | 6 | 5 |
| Hispanic ........................... | 90 | 99 | 9 | 43 | 81 | 38 | 12 | 46 | 33 | 2 | 12 | 10 | - | 1 | 1 |
| Other............................... | 88 | 99 | 11 | 45 | 81 | 37 | 13 | 45 | 32 | 2 | 11 | 9 | - | 1 | 1 |
| Mother's education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <High school..................... | 83 | 97 | 14 | 31 | 72 | 41 | 6 | 32 | 26 | 1 | 6 | 6 | - | 1 | , |
| High school diploma............. | 91 | 99 | 8 | 48 | 83 | 35 | 14 | 49 | 35 | 2 | 13 | 11 | - | 1 | 1 |
| Some college ${ }^{\text {a }}$................... | 95 | 99 | 4 | 59 | 89 | 30 | 21 | 59 | 38 | 3 | 18 | 14 | - | 2 | 2 |
| Bachelor's or higher degree.... | 99 | 100 | 1 | 76 | 95 | 19 | 38 | 75 | 37 | 9 | 31 | 23 | 1 | 5 | 4 |
| Family risk factors ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 ................................... | 96 | 99 | 4 | 65 | 91 | 26 | 27 | 64 | 37 | 5 | 22 | 17 | - | 3 | 3 |
| 1 .................................. | 91 | 99 | 8 | 47 | 82 | 35 | 14 | 48 | 34 | 2 | 13 | 11 | - | 1 | 1 |
| $\geq 2$................................... | 84 | 97 | 14 | 33 | 72 | 39 | 7 | 32 | 25 | 1 | 6 | 5 | - | - | - |

alncludes vocational and technical education.
${ }^{\text {II }}$ Index consists of family having received welfare assistance, non-English primary home language, single-parent family, and maternal education less than high school diploma or equivalent credential (e.g., General Educational Development certificate). NOTES: Estimates based on first-time kindergartners assessed in English in both fall and spring (approximately $19 \%$ of Asian children and approximately $30 \%$ of Hispanic children not included in these estimates). Change calculated on unrounded numbers. SOURCES: J. West, K. Denton, and L. Reaney, The Kindergarten Year, National Center for Education Statistics (NCES) 2001-023, table 4 (2000); and data from U.S. Department of Education, NCES, Early Childhood Longitudinal Study, Kindergarten Class of 1998-99 (ECLS-K), fall 1998 and spring 1999.

