

APPENDIX TABLE 1-14

Average mathematics assessment test scores of children who were in kindergarten for the first time in the 2010–11 school year and in third grade in the 2013–14 school year, by child and family characteristics

(Average score)

Child and family characteristic	Academic year 2010–11		Academic year 2011–12		Academic year 2012–13		Academic year 2013–14 ^a	
	Fall	Spring	Fall	Spring	Fall	Spring	Spring	
All children	29.3	42.0	51.5	64.0	72.9	81.9	99.2	
Sex								
Male	29.4	42.0	51.6	64.6	73.9	82.9	100.9	
Female	29.2	42.0	51.4	63.3	71.8	80.8	97.4	
Race or ethnicity ^b								
White	31.7	44.6	54.4	67.5	76.6	85.3	102.9	
Black	25.8	37.5	45.9	57.8	65.2	73.6	90.2	
Hispanic ^c	24.7	37.8	47.4	58.7	67.3	77.3	94.3	
Asian	34.5	46.0	56.0	68.1	78.4	87.8	104.3	
American Indian or Alaska Native	26.3	40.2	48.1	62.0	69.0	78.6	99.2	
Family poverty status in fall 2010 ^d								
Income below the federal poverty level	24.1	36.8	45.5	58.1	66.7	75.8	93.3	
Income at or above 200% of the federal poverty level	33.3	45.9	55.6	67.9	77.0	85.9	103.2	
Family type in fall 2010 ^e								
One-parent household	25.9	38.3	47.5	60.2	67.8	77.1	94.5	
Two-parent household	30.6	43.4	52.8	65.5	74.7	83.6	100.8	
Primary home language in fall 2010								
English	30.2	42.9	52.4	65.1	73.9	82.6	100.0	
Not English	24.1	37.3	46.3	58.0	67.2	77.6	94.4	
Parents' highest education in fall 2010 ^f								
Less than high school education	21.0	34.3	44.3	54.7	65.8	75.8	90.7	



Child and family characteristic	Academic year 2010–11		Academic year 2011–12		Academic year 2012–13		Academic year 2013–14 ^a
	Fall	Spring	Fall	Spring	Fall	Spring	Spring
High school diploma or equivalent	24.7	37.4	46.7	59.2	67.9	77.4	94.1
Some college, associate's degree, or career or technical education	28.4	41.1	50.3	63.2	71.9	81.2	98.2
Bachelor's degree	33.1	45.8	55.5	67.9	77.3	85.5	103.0
Graduate or professional school	35.7	48.1	58.7	70.3	80.1	88.3	105.8

^a Third grade assessments were conducted only in the spring of the academic year 2013–14.

^b Other racial and ethnic groups are included in all children but are not shown separately in the table.

^c Hispanic may be any race. American Indian or Alaska Native, Asian, black, and white refer to individuals who are not of Hispanic origin.

^d Poverty status is based on 2010 U.S. Census poverty thresholds, which identify incomes determined to meet household needs, given family size. For example, in 2010, a family of two was below the poverty threshold if its income was lower than \$14,220.

^e Two parents includes two biological parents, two adoptive parents, and one biological or adoptive parent and one other parent or partner. One parent refers to one biological or adoptive parent only.

^f The highest level of education achieved by either of the parents or guardians in a two-parent household or by the only parent or guardian in a single-parent household.

Note(s)

The mathematics assessment scale was 0 to 75 in kindergarten, 0 to 96 in first grade, 0 to 113 in second grade, and 0 to 135 in third grade.

Source(s)

Mulligan GM, Hastedt S, McCarroll JC, *First-Time Kindergartners in 2010–11: First Findings From the Kindergarten Rounds of the Early Childhood Longitudinal Study, Kindergarten Class of 2010–11 (ECLS-K:2011)*, NCES 2012-049 (2012); Mulligan GM, McCarroll JC, Flanagan KD, Potter D, *Findings From the First-Grade Rounds of the Early Childhood Longitudinal Study, Kindergarten Class of 2010–11 (ECLS-K: 2011)*, NCES 2015-109 (2014); Mulligan GM, McCarroll JC, Flanagan KD, Potter D, *Findings From the Second-Grade Rounds of the Early Childhood Longitudinal Study, Kindergarten Class of 2010–11 (ECLS-K:2011)*, NCES 2015-077 (2015); Mulligan GM, McCarroll JC, Flanagan KD, Potter D, *Findings From the Third-Grade Round of the Early Childhood Longitudinal Study, Kindergarten Class of 2010–11 (ECLS-K: 2011)*, NCES 2016-094 (2016).

Science and Engineering Indicators 2018