

Table 47.—Children’s mean reading, mathematics, and general knowledge performance in kindergarten and first grade, by child and family characteristics: Fall 1998, spring 1999, fall 1999, and spring 2000

Child and family characteristics	General knowledge performance ¹				Reading overall performance ¹				Reading, percent reading sight words ¹				Mathematics, overall performance ¹				Mathematics, percent with addition and subtraction skills ²			
	Kindergarten		1st grade		Kindergarten		1st grade		Kindergarten		1st grade		Kindergarten		1st grade		Kindergarten		1st grade	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Student performance																				
Total	22.7	27.7	30.9	35.5	22.9	33.0	38.7	55.7	2.7	13.6	25.8	78.3	19.8	28.0	33.0	43.8	4.4	17.5	35.0	74.0
Sex																				
Male	23.0	28.1	31.3	35.9	22.5	32.0	37.7	54.5	2.8	11.9	23.3	74.9	20.1	28.2	33.5	44.1	4.4	18.4	35.9	73.8
Female	22.4	27.4	30.4	35.1	23.4	34.1	39.7	56.9	2.6	15.3	28.3	81.8	19.6	27.7	33.0	43.5	3.0	16.7	33.0	73.6
Race/ethnicity																				
White, non-Hispanic ..	24.9	30.0	33.1	37.5	24.2	34.8	40.4	57.9	3.2	15.9	29.3	83.3	21.3	29.7	35.2	45.7	4.9	21.9	40.8	79.7
Black, non-Hispanic ...	17.5	22.4	25.9	30.7	20.3	29.7	34.6	50.4	0.8	7.9	16.7	67.1	16.7	23.9	28.8	39.2	0.8	7.2	20.0	58.8
Hispanic	19.6	25.2	28.0	33.2	20.6	30.6	36.1	52.7	1.7	9.7	20.0	71.5	17.5	25.5	30.9	41.7	1.7	11.7	25.9	67.5
Asian/Pacific Islander	19.9	25.0	28.0	32.5	27.0	37.3	43.5	59.3	10.6	28.0	39.0	82.0	21.2	28.8	35.0	43.1	6.9	23.7	40.0	70.0
Parent education																				
Less than high school	16.3	21.9	24.9	29.8	17.4	26.7	30.7	46.2	(³)	2.9	7.7	57.0	14.5	21.7	26.4	37.8	(³)	3.6	13.7	53.9
High school	19.9	24.6	27.6	32.6	20.1	30.0	34.8	52.0	1.3	7.3	16.0	70.0	17.3	24.8	30.1	40.5	1.2	9.8	23.4	63.3
Some college	22.4	27.6	30.9	36.0	22.3	32.5	38.2	55.2	1.7	11.2	24.2	80.0	19.3	27.6	32.9	43.7	2.3	14.6	31.7	74.7
Bachelor's or higher ..	26.7	31.9	34.9	39.2	27.3	38.1	44.1	61.8	5.4	23.9	39.8	89.0	23.8	32.3	38.0	48.0	8.2	30.4	51.4	84.9
Socioeconomic status																				
Lowest 20 percent	16.6	21.6	24.4	29.4	17.5	26.7	30.9	46.1	(³)	4.0	8.1	55.9	14.7	21.8	26.4	37.2	(³)	4.4	14.2	51.6
Middle 60 percent	22.4	27.6	30.7	36.0	22.5	32.8	38.3	55.6	1.8	11.6	24.3	79.9	19.5	27.7	33.0	43.7	2.5	15.4	32.6	74.3
Highest 20 percent	27.8	32.7	35.9	39.9	28.2	39.2	45.2	62.5	6.8	26.5	42.6	89.7	24.6	33.1	38.9	48.6	9.6	32.9	54.4	87.0
Standard errors																				
Total	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.3	0.8	1.3	1.2	0.3	0.3	0.3	0.3	0.3	0.8	1.1	1.2
Sex																				
Male	0.3	0.4	0.4	0.3	0.4	0.4	0.6	0.6	0.5	1.0	1.6	1.6	0.3	0.4	0.4	0.5	0.4	1.0	1.3	1.6
Female	0.3	0.3	0.4	0.3	0.3	0.4	0.5	0.5	0.4	1.0	1.4	1.4	0.3	0.3	0.3	0.3	0.3	0.9	1.2	1.2
Race/ethnicity																				
White, non-Hispanic ..	0.3	0.3	0.3	0.2	0.3	0.4	0.5	0.5	0.4	1.0	1.4	1.4	0.3	0.3	0.3	0.4	0.4	0.9	1.3	1.3
Black, non-Hispanic ...	0.3	0.4	0.5	0.5	0.3	0.5	0.6	0.6	0.3	1.3	1.8	2.1	0.3	0.4	0.4	0.5	0.2	0.9	1.2	2.0
Hispanic	0.5	0.4	0.4	0.4	0.5	0.6	0.7	1.0	0.5	1.1	2.4	3.0	0.4	0.5	0.6	0.6	0.4	1.1	1.7	2.5
Asian/Pacific Islander	1.0	0.9	1.1	1.0	1.6	1.9	2.1	2.1	2.9	4.8	5.6	5.0	1.0	1.5	1.5	1.4	2.6	4.3	5.2	5.5
Parent education																				
Less than high school	0.4	0.6	0.7	0.6	0.5	0.6	0.8	1.1	0.0	1.0	1.5	3.1	0.4	0.5	0.7	1.0	0.0	0.6	2.3	3.9
High school	0.4	0.5	0.5	0.5	0.5	0.6	0.7	0.8	0.7	1.2	1.8	2.1	0.4	0.4	0.5	0.6	0.3	1.0	1.9	2.3
Some college	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.4	0.8	1.6	1.4	0.3	0.3	0.4	0.3	0.3	0.9	1.2	1.3
Bachelor's or higher ..	0.3	0.3	0.3	0.2	0.5	0.6	0.6	0.6	0.7	1.6	2.0	1.1	0.4	0.4	0.4	0.4	0.8	1.4	1.5	1.2
Socioeconomic status																				
Lowest 20 percent	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.9	0.3	1.0	1.4	2.3	0.3	0.5	0.5	0.7	0.2	0.6	1.5	2.4
Middle 60 percent	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.6	0.3	0.8	1.4	1.5	0.3	0.3	0.3	0.4	0.3	0.8	1.1	1.3
Highest 20 percent	0.4	0.4	0.4	0.3	0.6	0.7	0.7	0.7	1.0	2.0	2.3	1.3	0.4	0.5	0.5	0.4	1.0	1.8	1.8	1.3

¹ Performance estimates are mean scale scores. Scale scores range as follows: General knowledge, 0–51; Reading, 0–92; and Mathematics, 0–64.

² Student was assumed to have mastered a particular skill if at least three of the four items in the subject cluster were answered correctly.

³ Less than .05 percent

NOTE: Estimates based on children who entered kindergarten for the first time in the fall of 1998 and were assessed in English for all four rounds of data collection. Approximately 67 percent of Hispanic children and 82 percent of Asian

children were assessed in English in all four rounds of data collection. First grade estimates include children promoted to first grade on time and also include the scores of the small percentage of children (i.e., 5 percent) who repeated kindergarten in 1999–2000.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal Study, Kindergarten Class of 1998–99, First Grade, Restricted-Use Files. (This table was prepared September 2001.)