

Table 47. Children's mean general knowledge, reading, and mathematics 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 scale score ¹										Reading overall performance scale score ¹										Mathematics overall performance scale score ¹									
	Kindergarten					1st grade					Kindergarten					1st grade					Kindergarten					1st grade				
	Fall 1998	Spring 1998	Fall 1999	Spring 2000	Fall 1998	Spring 1999	Fall 1999	Spring 2000	Fall 1998	Spring 1999	Fall 1999	Spring 2000	Fall 1998	Spring 1999	Fall 1999	Spring 2000	Fall 1998	Spring 1999	Fall 1999	Spring 2000	Fall 1998	Spring 1999	Fall 1999	Spring 2000	Fall 1998	Spring 1999	Fall 1999	Spring 2000		
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	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	35.9	73.8									
Female	22.4	27.4	30.4	36.1	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	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	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	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	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	40.0	70.0									
Parents' highest level of education																														
Less than high school	16.3	21.9	24.9	29.8	17.4	26.7	30.7	46.2	#	2.9	7.7	57.0	14.5	21.7	26.4	37.8	#	3.6	13.7	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	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	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	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	4.0	8.1	55.9	14.7	21.8	26.4	37.2	#	4.4	14.2	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	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	54.4	87.0									

Child and family characteristics	Student performance										Standard errors										Standard errors									
	Kindergarten					1st grade					Kindergarten					1st grade					Kindergarten					1st grade				
	Fall 1998	Spring 1998	Fall 1999	Spring 2000	Fall 1998	Spring 1999	Fall 1999	Spring 2000	Fall 1998	Spring 1999	Fall 1999	Spring 2000	Fall 1998	Spring 1999	Fall 1999	Spring 2000	Fall 1998	Spring 1999	Fall 1999	Spring 2000	Fall 1998	Spring 1999	Fall 1999	Spring 2000	Fall 1998	Spring 1999	Fall 1999	Spring 2000		
Total	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.8	1.3	1.2	0.3	0.3	0.3	0.3	0.8	1.1	1.2	1.2	1.2		
Sex																														
Male	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	1.0	1.4	1.4	0.3	0.3	0.3	0.3	0.4	1.0	1.2	1.2	1.2		
Female	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	1.0	1.4	1.4	0.3	0.3	0.3	0.3	0.4	1.0	1.2	1.2	1.2		
Race/ethnicity																														
White, non-Hispanic ..	0.3	0.3	0.3	0.3	0.2	0.3	0.4	0.5	0.5	0.5	0.6	0.6	0.4	0.4	0.4	0.4	1.0	1.4	1.4	0.3	0.3	0.3	0.3	0.4	1.0	1.2	1.2	1.2		
Black, non-Hispanic ..	0.3	0.4	0.5	0.5	0.3	0.5	0.4	0.5	0.6	0.6	0.7	0.7	0.5	0.5	0.5	0.5	1.3	1.8	2.1	0.3	0.3	0.3	0.3	0.4	1.0	1.2	1.2	1.2		
Hispanic	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.5	0.5	0.5	0.5	1.1	2.4	3.0	0.4	0.4	0.4	0.4	0.5	1.0	1.1	1.1	1.1		
Asian/Pacific Islander	1.0	0.9	1.1	1.0	1.6	1.9	2.1	2.1	2.1	2.1	2.9	4.8	5.6	5.0	5.0	5.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	2.6	4.3	5.2	5.2	5.5		
Parents' highest level of education																														
Less than high school	0.4	0.6	0.7	0.6	0.5	0.6	0.6	0.8	1.1	0.7	1.0	1.0	0.7	0.7	0.7	0.7	1.2	1.8	1.8	0.4	0.4	0.4	0.4	0.5	0.7	1.0	0.6	0.6	0.6	
High school	0.4	0.5	0.5	0.5	0.3	0.4	0.4	0.5	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.5	0.8	1.6	1.4	0.3	0.3	0.3	0.3	0.4	0.6	0.9	0.9	0.9	
Some college	0.3	0.3	0.3	0.2	0.3	0.2	0.5	0.6	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.7	1.6	2.0	2.0	0.4	0.4	0.4	0.4	0.5	0.7	1.4	1.4	1.4	
Bachelor's or higher ..	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.5	0.5	0.6	0.6	0.7	0.7	0.6	0.6	0.6	0.7	1.1	2.0	2.0	0.4	0.4	0.4	0.4	0.5	0.7	1.5	1.5	1.5	
Socioeconomic status																														
Lowest 20 percent	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.9	0.3	0.3	0.3	0.4	1.0	1.4	1.4	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.5	
Middle 60 percent	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.9	0.3	0.3	0.3	0.4	1.0	1.4	1.4	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.5	
Highest 20 percent	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.9	0.3	0.3	0.3	0.4	1.0	1.4	1.4	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.5	

#Rounds to zero.

¹Performance estimates are mean scale scores. Scale scores range as follows: General knowledge, 0-51; Reading, 0-92; and Mathematics, 0-64. The standard deviation for the reading scale scores are: fall Kindergarten, 10.32; spring Kindergarten, 13.29; fall 1st grade, 16.37; and spring 1st grade, 20.79. The standard deviation for the mathematics scale scores are: fall Kindergarten, 8.86; spring Kindergarten, 11.51; fall 1st grade, 13.27 and spring 1st grade, 16.15. The standard deviation for the general knowledge scale scores are: fall Kindergarten, 7.50; spring Kindergarten, 7.64; fall 1st grade, 7.59; and spring 1st grade, 7.03.

The standard deviation for the subject cluster were assumed to have mastered a particular skill if at least three of the four items in the subject cluster were answered correctly.

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