Appendix table 1-1

Proficiency in specific mathematics knowledge and skill areas of students in grades 3 and 5, by student and family characteristics: 2002 and 2004

(Percent)

Student/family characteristic	Multiplication and division (level 5)		Place value (level 6)		Rate and measurement (level 7)		Fractions (level 8)		Area and volume (level 9)	
	Grade 3	Grade 5	Grade 3	Grade 5	Grade 3	Grade 5	Grade 3	Grade 5	Grade 3	Grade 5
All students	76	92	41	74	13	43	1	13	NA	2
Sex										
Male	78	93	45	77	16	47	1	16	NA	2
Female	74	91	37	70	10	39	_	10	NA	1
Race/ethnicity										
White, non-Hispanic	84	95	52	82	17	53	1	18	NA	2
Black, non-Hispanic	60	85	21	54	4	20	_	3	NA	0
Hispanic	69	91	30	68	7	34	_	7	NA	1
Asian	77	94	48	81	18	56	1	22	NA	3
Other <sup>a</sup>	68	87	33	65	10	36	_	13	NA	1
Mother's education										
<high school<="" td=""><td>52</td><td>80</td><td>16</td><td>47</td><td>3</td><td>18</td><td>_</td><td>3</td><td>NA</td><td>0</td></high>	52	80	16	47	3	18	_	3	NA	0
High school diploma	71	90	33	67	8	34	_	7	NA	1
Some college <sup>b</sup>	78	94	42	76	11	43	1	11	NA	1
Bachelor's or higher degree	90	98	63	90	25	66	2	28	NA	4
Poverty status <sup>c</sup>										
Below poverty threshold	58	84	20	53	4	22	_	4	NA	0
Above poverty threshold	82	95	48	80	16	50	1	16	NA	2

<sup>---</sup> = <0.5%; NA = not available

NOTES: In 2004 followup for Early Childhood Longitudinal Study (ECLS) kindergarten class of fall 1998, 86% of cohort was in grade 5, 14% was in a lower grade, and <1% was in a higher grade. For simplicity, students in ECLS followups referred to by modal and expected grade, i.e., third graders in spring 2002 assessment and fifth graders in spring 2004 assessment.

SOURCES: National Center for Education Statistics, ECLS, 2002 and 2004; and National Science Foundation, Division of Science Resources Statistics, special tabulations.

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elncludes non-Hispanic Native Hawaiians, Pacific Islanders, American Indians, Alaska Natives, and children of more than one race.

blncludes vocational and technical education.

<sup>°</sup>Federal poverty thresholds define households below poverty level based on household income and number of household members.