

Table 397.—Instructional practices and time spent teaching mathematics in 8th-grade, by country: 1994–95

Country	Percent of students whose teachers report using each organizational approach "most or every lesson"						Average number of hours mathematics is taught weekly to mathematics classes							
	Work together as a class and students respond to one another	Work together as a class and teacher teaches whole class	Work individually with assistance from teacher	Work individually without assistance from teacher	Work in pairs or groups with assistance from teacher	Work in pairs or groups without assistance from teacher	Less than 2 hours		At least 2, but less than 3.5 hours		At least 3.5, but less than 5 hours		5 hours or more	
							Percent	Mean score	Percent	Mean score	Percent	Mean score	Percent	Mean score
							8	9	10	11	12	13	14	15
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Australia <sup>1</sup>	<sup>2</sup> 14	<sup>2</sup> 46	<sup>2</sup> 64	<sup>2</sup> 27	<sup>2</sup> 25	<sup>2</sup> 9	<sup>2</sup> 5 (1.7)	528 (19.5)	50 (3.7)	518 (6.2)	44 (3.7)	552 (7.6)	1 (0.7)	—
Austria <sup>1</sup>	<sup>2</sup> 6	<sup>2</sup> 52	<sup>2</sup> 51	<sup>2</sup> 23	<sup>2</sup> 19	<sup>2</sup> 7	<sup>2</sup> 0 (0.0)	—	99 (0.1)	549 (4.1)	1 (0.1)	—	0 (0.0)	—
Belgium (Flemish)	10	59	57	36	6	5	<sup>3</sup> 0 (0.0)	—	50 (4.4)	572 (5.6)	50 (4.4)	603 (5.4)	0 (0.0)	—
Belgium (French) <sup>1</sup>	<sup>3</sup> 7	<sup>3</sup> 38	<sup>3</sup> 55	<sup>3</sup> 29	<sup>3</sup> 11	<sup>3</sup> 5	<sup>3</sup> 0 (0.0)	—	3 (1.8)	486 (12.9)	83 (4.2)	544 (4.7)	14 (3.8)	564 (10.0)
Bulgaria <sup>1</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Canada	<sup>2</sup> 12	37	57	<sup>2</sup> 25	<sup>2</sup> 28	<sup>2</sup> 14	3 (1.2)	528 (11.8)	31 (3.8)	521 (5.0)	50 (3.6)	537 (4.3)	17 (3.1)	520 (10.2)
Colombia <sup>1</sup>	25	41	55	<sup>2</sup> 19	44	<sup>2</sup> 22	<sup>2</sup> 4 (2.0)	389 (8.2)	25 (5.5)	367 (8.8)	58 (5.4)	397 (3.9)	13 (3.3)	390 (8.2)
Cyprus	<sup>2</sup> 13	<sup>2</sup> 61	<sup>2</sup> 73	<sup>2</sup> 23	<sup>2</sup> 26	<sup>2</sup> 9	—	—	—	—	—	—	—	—
Czech Republic	5	47	72	42	13	8	1 (0.9)	—	6 (2.0)	587 (17.2)	90 (2.7)	561 (5.1)	3 (1.6)	535 (10.2)
Denmark <sup>1</sup>	5	41	74	16	18	4	—	—	—	—	—	—	—	—
England <sup>1</sup>	<sup>3</sup> 19	<sup>3</sup> 46	<sup>3</sup> 57	<sup>3</sup> 25	<sup>3</sup> 14	<sup>3</sup> 8	—	—	—	—	—	—	—	—
France	11	48	56	26	17	4	<sup>2</sup> 2 (1.4)	—	10 (3.2)	532 (13.4)	87 (3.3)	539 (3.9)	2 (1.3)	—
Germany <sup>1</sup>	<sup>3</sup> 23	<sup>3</sup> 70	<sup>3</sup> 54	<sup>3</sup> 15	<sup>3</sup> 20	<sup>3</sup> 9	<sup>3</sup> 2 (1.5)	—	85 (3.1)	523 (5.3)	12 (2.9)	463 (13.3)	1 (0.9)	—
Greece <sup>1</sup>	4	58	60	18	14	3	4 (1.7)	459 (10.8)	88 (2.8)	486 (3.5)	3 (1.6)	459 (12.3)	4 (1.6)	480 (8.9)
Hong Kong	11	37	62	17	9	4	5 (2.4)	612 (47.4)	26 (5.2)	590 (19.5)	63 (5.8)	590 (7.6)	6 (2.9)	567 (30.1)
Hungary	11	60	65	22	7	1	0 (0.0)	—	75 (3.6)	538 (3.9)	23 (3.6)	536 (7.0)	1 (1.0)	—
Iceland	<sup>2</sup> 2	<sup>2</sup> 39	<sup>2</sup> 82	<sup>2</sup> 38	<sup>2</sup> 32	<sup>2</sup> 17	<sup>2</sup> 0 (0.0)	—	90 (2.9)	492 (5.3)	8 (2.9)	467 (3.5)	1 (0.2)	—
Iran, Islamic Republic	33	66	55	8	42	10	—	—	—	—	—	—	—	—
Ireland	<sup>2</sup> 7	<sup>2</sup> 67	<sup>2</sup> 47	<sup>2</sup> 37	<sup>2</sup> 9	<sup>2</sup> 6	<sup>2</sup> 1 (0.7)	—	86 (3.7)	524 (6.4)	12 (3.4)	555 (15.2)	1 (1.1)	—
Israel <sup>1</sup>	<sup>2</sup> 70	<sup>2</sup> 65	<sup>2</sup> 35	<sup>2</sup> 68	<sup>2</sup> 51	<sup>2</sup> 62	<sup>2</sup> 6 (4.1)	523 (13.7)	41 (8.0)	520 (12.7)	47 (8.1)	514 (9.2)	6 (3.7)	579 (22.6)
Japan	22	78	27	15	7	1	4 (1.8)	607 (24.3)	91 (2.3)	602 (2.7)	4 (1.4)	649 (18.5)	0 (0.5)	—
Korea	39	89	41	30	12	11	1 (0.7)	—	90 (3.0)	610 (2.8)	5 (1.8)	608 (13.8)	5 (2.3)	604 (19.5)
Kuwait <sup>1</sup>	3	34	48	14	7	5	2 (1.6)	—	21 (6.5)	396 (6.8)	76 (6.6)	391 (2.3)	1 (1.0)	—
Latvia (Latvian-speaking schools) <sup>1</sup>	24	86	90	<sup>2</sup> 55	28	<sup>2</sup> 11	1 (0.5)	—	30 (4.8)	491 (5.8)	62 (5.3)	492 (4.3)	8 (2.6)	489 (15.0)
Lithuania <sup>1</sup>	10	55	72	25	32	10	1 (0.8)	—	61 (4.1)	482 (5.0)	29 (3.9)	481 (7.5)	9 (2.3)	448 (13.8)
Netherlands <sup>1</sup>	7	56	65	38	49	34	3 (1.9)	529 (54.2)	97 (1.9)	542 (8.1)	0 (0.0)	—	0 (0.0)	—
New Zealand	19	52	63	28	25	14	5 (1.8)	484 (11.6)	42 (4.3)	514 (7.1)	50 (4.3)	507 (6.4)	3 (1.5)	503 (27.3)
Norway	<sup>2</sup> 17	<sup>2</sup> 58	<sup>2</sup> 71	44	<sup>2</sup> 36	<sup>4</sup> 6	<sup>2</sup> 7 (2.6)	502 (5.0)	80 (3.9)	508 (3.1)	8 (2.8)	502 (7.7)	5 (2.1)	513 (7.7)
Portugal	10	67	69	5	50	4	1 (0.8)	—	89 (2.9)	455 (2.7)	10 (2.8)	452 (7.8)	0 (0.0)	—
Romania <sup>1</sup>	12	86	56	19	18	3	8 (2.6)	497 (17.6)	80 (3.4)	481 (5.0)	9 (2.5)	482 (12.4)	2 (0.6)	—
Russian Federation	6	66	65	37	22	13	0 (0.0)	—	17 (3.6)	519 (8.6)	70 (5.6)	533 (5.1)	14 (4.8)	567 (18.0)
Scotland <sup>1</sup>	<sup>2</sup> 5	<sup>2</sup> 34	<sup>2</sup> 62	<sup>2</sup> 28	<sup>2</sup> 7	<sup>2</sup> 3	5 (2.0)	473 (14.7)	35 (4.4)	500 (11.6)	60 (4.6)	494 (7.1)	0 (0.0)	—
Singapore	15	61	48	27	20	6	0 (0.0)	—	52 (4.7)	654 (6.9)	48 (4.7)	633 (7.6)	0 (0.0)	—
Slovak Republic	35	47	50	31	8	7	0 (0.0)	—	2 (1.3)	—	86 (3.0)	544 (3.2)	11 (2.9)	561 (11.0)
Slovenia <sup>1</sup>	<sup>2</sup> 11	<sup>2</sup> 60	<sup>2</sup> 87	<sup>2</sup> 34	<sup>2</sup> 40	<sup>2</sup> 11	<sup>2</sup> 0 (0.0)	—	87 (3.4)	542 (4.0)	12 (3.3)	525 (9.5)	1 (0.8)	—
South Africa <sup>1</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Spain	<sup>2</sup> 15	<sup>2</sup> 68	<sup>2</sup> 58	<sup>2</sup> 24	<sup>2</sup> 15	<sup>2</sup> 10	<sup>2</sup> 2 (1.1)	—	28 (4.0)	480 (5.5)	62 (4.7)	490 (3.6)	8 (2.6)	494 (9.2)
Sweden	<sup>2</sup> 24	<sup>2</sup> 50	<sup>2</sup> 72	<sup>2</sup> 1	<sup>2</sup> 43	<sup>2</sup> 5	<sup>2</sup> 3 (1.2)	506 (24.2)	97 (1.3)	520 (3.2)	0 (0.4)	—	0 (0.3)	—
Switzerland <sup>1</sup>	<sup>3</sup> 4	<sup>3</sup> 48	<sup>3</sup> 61	<sup>3</sup> 25	<sup>3</sup> 35	<sup>3</sup> 20	<sup>3</sup> 2 (1.4)	—	14 (3.4)	520 (17.8)	71 (3.5)	557 (6.5)	13 (3.0)	566 (12.4)
Thailand <sup>1</sup>	<sup>2</sup> 19	<sup>3</sup> 58	<sup>2</sup> 41	<sup>2</sup> 18	<sup>2</sup> 22	<sup>2</sup> 5	—	—	—	—	—	—	—	—
United States	<sup>2</sup> 22	<sup>2</sup> 49	<sup>2</sup> 50	<sup>2</sup> 19	<sup>2</sup> 26	<sup>2</sup> 12	<sup>3</sup> 8 (1.4)	492 (26.2)	24 (3.4)	501 (9.9)	58 (4.4)	507 (5.4)	11 (2.8)	498 (10.0)

—Not available.

<sup>1</sup> Countries not meeting all International Association for the Evaluation of Educational Achievement's sampling specifications.<sup>2</sup> Teacher response data available for 70 to 84 percent of students.<sup>3</sup> Teacher response data available for 50 to 69 percent of students.

NOTE: Data are for 8th grade or equivalent in most countries. Standard errors appear in parentheses.

SOURCE: International Association for the Evaluation of Educational Achievement, *Mathematics Achievement in the Middle School Years: IEA's Third International Mathematics and Science Study*, 1997, by Albert E. Beaton et al. Copyright © 1996 Boston College, Chestnut Hill, MA. (This table was prepared June 1997.)