



■ Table V.A ■

SNAPSHOT OF PERFORMANCE IN PROBLEM SOLVING

Countries/economies with mean score/share of top performers/relative performance/solution rate above the OECD average Countries/economies with share of low achievers below the OECD average
Countries/economies with mean score/share of top performers/relative performance/share of low achievers/solution rate not statistically different from the OECD average
Countries/economies with mean score/share of top performers/relative performance/solution rate below the OECD average Countries/economies with a share of low achievers above the OECD average


	Performance in problem solving				Relative performance in problem solving, compared with students around the world with similar performance in mathematics, reading and science	Performance in problem solving, by process		Performance in problem solving, by nature of the problem situation	
	Mean score in PISA 2012	Share of low achievers (below Level 2)	Share of top performers (Level 5 or 6)	Gender difference (boys - girls)		Solution rate on tasks measuring acquisition of knowledge	Solution rate on tasks measuring utilisation of knowledge	Solution rate on items referring to a static problem situation	Solution rate on items referring to an interactive problem situation
	Mean score	%	%	Score dif.		Score dif.	Percent correct	Percent correct	Percent correct
OECD average	500	21.4	11.4	7	-7	45.5	46.4	47.1	43.8
Singapore	562	8.0	29.3	9	2	62.0	55.4	59.8	57.5
Korea	561	6.9	27.6	13	14	62.8	54.5	58.9	57.7
Japan	552	7.1	22.3	19	11	59.1	56.3	58.7	55.9
Macao-China	540	7.5	16.6	10	8	58.3	51.3	57.0	51.7
Hong Kong-China	540	10.4	19.3	13	-16	57.7	51.1	56.1	52.2
Shanghai-China	536	10.6	18.3	25	-51	56.9	49.8	56.7	50.3
Chinese Taipei	534	11.6	18.3	12	-9	56.9	50.1	56.3	50.1
Canada	526	14.7	17.5	5	0	52.6	52.1	52.7	50.5
Australia	523	15.5	16.7	2	7	52.3	51.5	52.8	49.9
Finland	523	14.3	15.0	-6	-8	50.2	51.0	52.1	47.7
England (United Kingdom)	517	16.4	14.3	6	8	49.6	49.1	49.5	47.9
Estonia	515	15.1	11.8	5	-15	46.8	49.5	49.7	45.6
France	511	16.5	12.0	5	5	49.6	49.4	50.3	47.6
Netherlands	511	18.5	13.6	5	-16	48.2	49.7	50.4	46.5
Italy	510	16.4	10.8	18	10	49.5	48.0	49.5	46.8
Czech Republic	509	18.4	11.9	8	1	45.0	46.9	46.2	44.4
Germany	509	19.2	12.8	7	-12	47.5	49.5	49.4	46.3
United States	508	18.2	11.6	3	10	46.5	47.1	46.6	45.9
Belgium	508	20.8	14.4	8	-10	47.0	47.5	48.3	45.4
Austria	506	18.4	10.9	12	-5	45.7	47.4	48.3	43.0
Norway	503	21.3	13.1	-3	1	47.7	48.1	49.4	44.5
Ireland	498	20.3	9.4	5	-18	44.6	45.5	44.4	44.6
Denmark	497	20.4	8.7	10	-11	44.2	48.1	47.9	42.3
Portugal	494	20.6	7.4	16	-3	41.6	45.7	44.0	42.0
Sweden	491	23.5	8.8	-4	-1	45.2	44.6	47.7	41.6
Russian Federation	489	22.1	7.3	8	-4	40.4	43.8	43.8	39.7
Slovak Republic	483	26.1	7.8	22	-5	40.5	43.2	44.2	38.8
Poland	481	25.7	6.9	0	-44	41.3	43.7	44.1	39.7
Spain	477	28.5	7.8	2	-20	40.0	42.3	42.3	39.8
Slovenia	476	28.5	6.6	-4	-34	37.8	42.3	42.9	36.7
Serbia	473	28.5	4.7	15	11	37.7	40.7	40.3	36.8
Croatia	466	32.3	4.7	15	-22	35.2	40.5	39.3	35.6
Hungary	459	35.0	5.6	3	-34	35.2	37.6	38.2	33.9
Turkey	454	35.8	2.2	15	-14	32.8	36.0	35.8	32.7
Israel	454	38.9	8.8	6	-28	38.7	37.0	39.7	35.6
Chile	448	38.3	2.1	13	1	30.9	35.2	34.9	31.8
Cyprus*	445	40.4	3.6	-9	-12	33.6	34.8	37.0	31.4
Brazil	428	47.3	1.8	22	7	28.0	32.0	29.8	29.1
Malaysia	422	50.5	0.9	8	-14	29.1	29.3	30.1	27.4
United Arab Emirates	411	54.8	2.5	-26	-43	28.4	29.0	29.9	27.1
Montenegro	407	56.8	0.8	-6	-24	25.6	30.0	30.3	25.1
Uruguay	403	57.9	1.2	11	-27	24.8	27.9	27.5	24.8
Bulgaria	402	56.7	1.6	-17	-54	23.7	26.7	28.4	22.3
Colombia	399	61.5	1.2	31	-7	21.8	27.7	26.3	23.7

Note: Countries/economies in which the performance difference between boys and girls is statistically significant are marked in bold.

Countries and economies are ranked in descending order of the mean score in problem solving in PISA 2012.

* See notes in the Reader's Guide.

Source: OECD, PISA 2012 Database, Tables V.2.1, V.2.2, V.2.6, V.3.1, V.3.6 and V.4.7.

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