

Annex B2. Results for regions within countries

Table I.B2.1. Mean score and variation in mathematics performance [1/2]

	Mean score		Standard deviation		Percentiles											
					10th		25th		Median (50th)		75th		90th		Difference (90th - 10th)	
	Mean score	S.E.	S.D.	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score dif.	S.E.
OECD																
Belgium																
<i>Flemish community</i>	501	(3.0)	99	(1.4)	367	(4.4)	430	(4.4)	506	(4.0)	574	(3.6)	627	(3.1)	260	(5.0)
<i>French community</i>	474	(3.1)	91	(1.9)	352	(4.8)	410	(4.5)	476	(3.8)	538	(4.1)	590	(4.6)	239	(6.4)
<i>German-speaking community</i>	483	(5.2)	82	(2.8)	373	(8.6)	427	(7.6)	487	(5.7)	542	(6.7)	591	(6.9)	218	(11.0)
Canada																
<i>Alberta*</i>	504	(5.7)	98	(2.6)	376	(6.5)	432	(6.9)	502	(6.6)	571	(7.4)	633	(9.5)	257	(9.2)
<i>British Columbia*</i>	496	(4.4)	93	(1.9)	377	(6.5)	431	(5.5)	495	(5.5)	560	(5.0)	617	(5.2)	240	(6.8)
<i>Manitoba*</i>	470	(2.7)	86	(1.7)	360	(4.6)	411	(3.4)	470	(3.1)	530	(3.0)	582	(4.2)	222	(5.5)
<i>New Brunswick</i>	468	(3.1)	90	(2.2)	355	(5.2)	404	(4.3)	466	(4.7)	529	(4.0)	585	(6.3)	230	(7.5)
<i>Newfoundland and Labrador*</i>	459	(5.5)	86	(2.4)	349	(7.3)	398	(7.2)	458	(6.5)	517	(7.2)	573	(8.0)	224	(8.8)
<i>Nova Scotia*</i>	470	(3.6)	91	(2.4)	355	(5.6)	403	(5.1)	467	(5.1)	533	(5.4)	590	(5.8)	235	(8.3)
<i>Ontario*</i>	495	(3.0)	93	(1.6)	376	(3.5)	431	(3.1)	493	(3.4)	556	(4.3)	616	(4.7)	240	(4.9)
<i>Prince Edward Island</i>	478	(6.6)	88	(3.9)	363	(11.7)	412	(9.4)	478	(11.0)	542	(9.3)	591	(11.0)	228	(15.2)
<i>Quebec*</i>	514	(3.9)	94	(1.9)	390	(5.3)	450	(4.8)	517	(4.7)	581	(4.6)	631	(4.3)	241	(6.0)
<i>Saskatchewan</i>	468	(2.6)	86	(1.9)	358	(4.8)	407	(3.9)	466	(3.0)	527	(4.3)	581	(5.2)	223	(6.7)
Colombia																
<i>Bogotá</i>	423	(5.0)	74	(3.3)	333	(5.8)	371	(5.2)	417	(4.8)	471	(6.7)	522	(9.1)	189	(9.7)
Italy																
<i>Bolzano</i>	482	(3.1)	83	(1.7)	374	(4.1)	424	(4.3)	480	(3.6)	538	(4.2)	591	(5.3)	217	(5.9)
<i>Trento</i>	491	(1.9)	83	(1.5)	381	(4.0)	433	(3.3)	492	(3.2)	547	(3.5)	597	(5.0)	217	(6.4)
Spain																
<i>Andalusia</i>	457	(4.9)	87	(2.4)	343	(6.2)	398	(5.7)	457	(5.3)	516	(6.6)	569	(7.0)	227	(7.6)
<i>Aragon</i>	487	(4.6)	85	(2.1)	373	(6.8)	429	(6.1)	491	(5.3)	546	(5.1)	595	(5.4)	223	(7.0)
<i>Asturias</i>	495	(4.4)	86	(2.0)	378	(6.2)	437	(5.8)	498	(4.8)	554	(4.8)	604	(5.5)	225	(6.8)
<i>Balearic Islands</i>	471	(3.8)	83	(2.2)	362	(6.0)	413	(5.2)	472	(4.2)	530	(4.5)	577	(5.5)	215	(6.7)
<i>Basque Country</i>	482	(4.0)	83	(1.8)	372	(6.4)	427	(4.9)	485	(4.3)	541	(3.9)	587	(3.5)	215	(5.7)
<i>Canary Islands</i>	447	(4.5)	81	(1.9)	342	(6.7)	392	(5.4)	447	(5.1)	502	(5.5)	552	(5.8)	209	(7.1)
<i>Cantabria</i>	495	(4.6)	83	(1.8)	386	(7.9)	438	(5.7)	498	(5.8)	553	(4.4)	599	(5.8)	213	(7.7)
<i>Castile and Leon</i>	499	(3.8)	84	(2.0)	390	(6.6)	443	(5.9)	503	(4.6)	558	(3.8)	604	(4.4)	214	(7.0)
<i>Castile-La Mancha</i>	464	(3.4)	80	(1.6)	358	(5.2)	408	(4.3)	465	(4.4)	520	(4.4)	567	(4.5)	209	(5.6)
<i>Catalonia</i>	469	(5.8)	88	(2.2)	355	(7.6)	408	(6.8)	470	(7.0)	531	(6.6)	584	(7.4)	229	(8.2)
<i>Ceuta</i>	395	(6.3)	81	(4.4)	296	(9.8)	335	(10.3)	394	(9.2)	450	(10.7)	503	(10.8)	206	(15.9)
<i>Comunidad Valenciana</i>	473	(3.9)	85	(1.7)	362	(5.2)	414	(4.9)	473	(4.8)	531	(4.6)	582	(5.2)	221	(5.8)
<i>Extremadura</i>	469	(4.9)	84	(2.1)	361	(6.7)	412	(5.4)	467	(6.2)	527	(5.9)	578	(6.5)	218	(7.1)
<i>Galicia</i>	486	(3.7)	80	(1.8)	378	(6.2)	433	(5.5)	490	(4.3)	543	(4.8)	588	(4.4)	209	(6.7)
<i>La Rioja</i>	493	(4.1)	87	(1.9)	377	(5.6)	432	(5.8)	494	(5.1)	554	(5.8)	604	(6.5)	228	(7.6)
<i>Madrid</i>	494	(3.6)	85	(2.2)	380	(6.3)	438	(5.2)	498	(3.9)	553	(4.1)	600	(4.4)	221	(6.9)
<i>Melilla</i>	404	(6.0)	84	(4.7)	304	(12.0)	345	(8.4)	393	(9.8)	457	(10.4)	520	(12.6)	216	(17.2)
<i>Murcia</i>	463	(4.4)	86	(1.7)	349	(5.6)	403	(6.5)	465	(5.3)	523	(5.0)	574	(5.4)	225	(6.6)
<i>Navarre</i>	492	(4.2)	84	(1.8)	379	(5.7)	433	(5.1)	494	(5.0)	552	(5.3)	600	(4.4)	221	(6.4)
United Kingdom																
<i>England*</i>	492	(2.6)	97	(1.5)	366	(4.1)	426	(3.3)	492	(3.0)	559	(3.4)	617	(4.4)	252	(5.5)
<i>Northern Ireland*</i>	475	(3.0)	92	(1.9)	354	(4.9)	410	(4.1)	476	(3.4)	538	(4.0)	597	(5.2)	242	(6.5)
<i>Scotland*</i>	471	(2.6)	94	(1.7)	352	(4.5)	404	(3.1)	469	(3.3)	536	(3.8)	595	(4.2)	243	(5.8)
<i>Wales*</i>	466	(3.2)	90	(1.7)	351	(4.8)	403	(3.9)	464	(3.7)	525	(3.9)	584	(5.0)	233	(6.1)

* Caution is required when interpreting estimates because one or more PISA sampling standards were not met (see Reader's Guide, Annexes A2 and A4).

Notes: Values that are statistically significant are indicated in bold (see Annex A3). PISA adjudicated region is shown in bold italic. See Table I.B1.2.1 for national data.

Table I.B2.1. Mean score and variation in mathematics performance [2/2]

	Mean score		Standard deviation		Percentiles											
					10th		25th		Median (50th)		75th		90th		Difference (90th - 10th)	
	Mean score	S.E.	S.D.	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score dif.	S.E.
Partners																
Brazil																
<i>North</i>	357	(4.7)	67	(3.1)	277	(5.6)	312	(5.0)	352	(4.7)	396	(6.4)	445	(9.6)	168	(9.7)
<i>Northeast</i>	363	(3.2)	73	(2.5)	277	(3.3)	312	(2.5)	354	(3.1)	404	(4.4)	460	(6.1)	183	(5.7)
<i>South</i>	394	(3.5)	78	(2.3)	299	(4.6)	339	(3.6)	387	(4.2)	442	(5.1)	497	(6.8)	198	(7.2)
<i>Southeast</i>	388	(2.8)	78	(1.9)	297	(2.9)	333	(2.5)	380	(2.9)	436	(4.2)	494	(5.6)	197	(5.7)
<i>Middle-West</i>	384	(6.9)	76	(4.0)	292	(6.8)	329	(6.2)	377	(6.6)	431	(9.3)	485	(13.0)	193	(11.7)
Kazakhstan																
<i>Akmola region</i>	419	(5.6)	74	(2.9)	329	(5.7)	368	(4.9)	415	(5.9)	465	(7.2)	516	(10.4)	187	(9.7)
<i>Aktobe region</i>	437	(4.1)	68	(2.3)	350	(7.5)	391	(5.2)	437	(4.7)	482	(5.5)	522	(6.1)	172	(9.4)
<i>Almaty</i>	453	(6.5)	84	(3.1)	345	(7.7)	391	(8.5)	452	(8.6)	510	(7.1)	561	(8.5)	216	(9.6)
<i>Almaty region</i>	412	(4.6)	72	(2.4)	323	(6.6)	364	(5.5)	409	(5.7)	459	(5.9)	507	(6.8)	183	(8.4)
<i>Astana</i>	449	(7.3)	85	(4.3)	343	(6.8)	391	(6.8)	445	(6.6)	504	(10.3)	563	(15.4)	220	(14.6)
<i>Atyrau region</i>	405	(6.0)	74	(3.0)	315	(5.5)	353	(5.9)	399	(6.7)	451	(9.1)	503	(10.1)	188	(9.8)
<i>East-Kazakhstan region</i>	432	(7.3)	83	(3.4)	331	(8.1)	372	(6.9)	426	(7.5)	487	(9.7)	542	(13.5)	211	(12.9)
<i>Karagandy region</i>	421	(4.3)	76	(2.2)	328	(6.1)	368	(5.5)	416	(5.3)	470	(5.4)	521	(5.9)	193	(7.1)
<i>Kostanay region</i>	440	(8.3)	81	(3.7)	339	(6.5)	382	(7.2)	435	(9.1)	493	(11.8)	550	(15.7)	211	(13.8)
<i>Kyzyl-Orda region</i>	414	(4.7)	68	(1.8)	329	(6.4)	367	(6.0)	410	(5.6)	458	(5.3)	503	(6.1)	174	(6.3)
<i>North-Kazakhstan region</i>	441	(5.2)	76	(2.1)	345	(6.3)	386	(5.0)	437	(6.3)	493	(7.3)	543	(8.2)	198	(7.5)
<i>Pavlodar region</i>	426	(4.9)	77	(2.6)	332	(5.2)	372	(5.5)	419	(5.4)	474	(6.6)	528	(9.8)	196	(9.5)
<i>Shymkent</i>	407	(4.8)	74	(2.0)	316	(5.6)	357	(5.8)	402	(5.6)	453	(7.1)	503	(7.0)	187	(7.2)
<i>Turkestan region</i>	389	(7.1)	71	(4.0)	302	(6.1)	340	(6.2)	386	(6.5)	434	(10.0)	486	(12.9)	184	(12.1)
<i>West-Kazakhstan region</i>	424	(4.0)	68	(2.0)	341	(5.1)	377	(4.2)	420	(4.8)	466	(5.7)	513	(6.3)	171	(7.3)
<i>Zhambyl region</i>	433	(5.6)	64	(2.8)	352	(8.5)	392	(6.5)	434	(6.1)	475	(6.1)	514	(7.9)	162	(9.0)
Mongolia																
<i>Central</i>	443	(3.3)	84	(2.1)	340	(3.0)	382	(3.0)	436	(3.6)	499	(4.5)	556	(6.1)	216	(5.7)
<i>Khangai</i>	409	(6.0)	73	(3.0)	319	(5.2)	357	(5.4)	405	(6.4)	455	(8.1)	505	(9.6)	186	(8.4)
<i>Western</i>	381	(4.9)	79	(3.0)	286	(6.5)	326	(6.3)	374	(5.7)	431	(6.2)	487	(7.7)	201	(8.9)
Viet Nam																
<i>Central</i>	461	(6.3)	83	(3.6)	355	(10.2)	407	(7.1)	461	(6.9)	517	(7.3)	567	(7.3)	212	(10.6)
<i>Northern</i>	480	(6.7)	86	(4.2)	370	(11.8)	424	(8.6)	481	(6.6)	539	(6.6)	590	(7.6)	220	(12.6)
<i>Southern</i>	463	(6.8)	86	(3.7)	355	(8.0)	404	(7.2)	461	(6.7)	521	(8.4)	578	(11.1)	223	(11.3)

* Caution is required when interpreting estimates because one or more PISA sampling standards were not met (see Reader's Guide, Annexes A2 and A4).

Notes: Values that are statistically significant are indicated in bold (see Annex A3). PISA adjudicated region is shown in bold italic. See Table I.B1.2.1 for national data.

Table I.B2.2. Mean score and variation in reading performance [1/2]

	Mean score		Standard deviation		Percentiles											
					10th		25th		Median (50th)		75th		90th		Difference (90th - 10th)	
	Mean score	S.E.	S.D.	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score dif.	S.E.
OECD																
Belgium																
<i>Flemish community</i>	483	(3.5)	105	(1.9)	340	(4.8)	412	(4.6)	490	(4.6)	558	(3.7)	613	(4.5)	273	(6.0)
<i>French community</i>	474	(3.7)	105	(2.2)	332	(6.7)	400	(4.7)	477	(4.3)	549	(4.5)	607	(5.1)	275	(8.1)
<i>German-speaking community</i>	467	(9.3)	89	(3.1)	348	(11.4)	408	(9.6)	470	(11.4)	531	(11.0)	579	(12.3)	231	(10.3)
Canada																
<i>Alberta*</i>	525	(6.3)	112	(3.8)	378	(8.9)	449	(8.0)	528	(7.4)	605	(7.2)	666	(9.7)	288	(11.7)
<i>British Columbia*</i>	511	(5.8)	107	(2.8)	370	(8.2)	439	(7.3)	514	(6.6)	587	(6.4)	646	(6.9)	276	(8.2)
<i>Manitoba*</i>	486	(3.8)	103	(2.5)	352	(6.7)	417	(5.1)	487	(4.4)	556	(4.2)	617	(5.6)	265	(7.9)
<i>New Brunswick</i>	469	(4.0)	106	(2.7)	330	(8.2)	398	(6.6)	472	(5.6)	541	(5.3)	604	(6.8)	274	(10.6)
<i>Newfoundland and Labrador*</i>	478	(7.1)	103	(3.2)	347	(10.7)	406	(8.1)	478	(7.4)	549	(9.7)	612	(8.4)	266	(10.6)
<i>Nova Scotia*</i>	489	(6.2)	106	(2.4)	351	(8.8)	415	(7.9)	488	(7.6)	564	(7.4)	625	(8.5)	274	(8.3)
<i>Ontario*</i>	512	(3.8)	108	(2.1)	371	(4.6)	438	(4.7)	516	(5.0)	587	(5.3)	646	(5.0)	276	(6.0)
<i>Prince Edward Island</i>	496	(10.3)	103	(5.5)	355	(17.8)	428	(13.8)	505	(11.9)	572	(14.5)	623	(20.8)	268	(24.1)
<i>Quebec*</i>	501	(4.6)	109	(2.3)	358	(6.7)	429	(5.5)	506	(5.3)	577	(5.2)	635	(5.8)	277	(7.2)
<i>Saskatchewan</i>	484	(4.1)	101	(2.4)	353	(6.0)	416	(5.0)	488	(4.4)	554	(5.4)	611	(6.5)	257	(7.6)
Colombia																
<i>Bogotá</i>	462	(5.8)	89	(3.1)	347	(6.4)	399	(7.1)	461	(6.7)	525	(6.9)	578	(7.6)	232	(8.8)
Italy																
<i>Bolzano</i>	482	(6.1)	87	(1.9)	366	(6.0)	423	(6.1)	483	(5.9)	543	(7.4)	594	(8.5)	228	(6.9)
<i>Trento</i>	494	(2.2)	86	(1.9)	377	(4.4)	437	(3.7)	501	(3.8)	555	(4.0)	598	(5.2)	220	(6.9)
Spain																
<i>Andalusia</i>	461	(5.2)	97	(2.3)	334	(6.7)	394	(6.3)	463	(6.4)	528	(6.3)	587	(7.1)	253	(7.8)
<i>Aragon</i>	488	(5.4)	94	(2.5)	363	(7.3)	426	(6.4)	493	(5.8)	553	(6.0)	605	(7.1)	243	(8.2)
<i>Asturias</i>	497	(5.6)	94	(2.3)	369	(9.3)	436	(7.0)	503	(5.9)	563	(5.7)	614	(5.5)	245	(8.4)
<i>Balearic Islands</i>	472	(6.3)	93	(2.5)	351	(7.9)	408	(6.5)	474	(7.0)	537	(6.9)	590	(7.3)	240	(7.8)
<i>Basque Country</i>	466	(4.7)	92	(2.4)	344	(6.8)	405	(5.9)	470	(5.4)	531	(5.7)	582	(5.5)	239	(7.7)
<i>Canary Islands</i>	463	(5.7)	94	(2.3)	342	(7.1)	400	(6.6)	465	(6.0)	527	(6.5)	582	(7.1)	240	(6.9)
<i>Cantabria</i>	494	(6.1)	91	(2.2)	375	(7.8)	435	(6.7)	498	(6.4)	557	(6.7)	607	(7.6)	233	(7.8)
<i>Castile and Leon</i>	498	(4.4)	92	(2.0)	377	(7.0)	438	(5.6)	501	(5.2)	563	(4.4)	614	(5.6)	237	(7.2)
<i>Castile-La Mancha</i>	468	(4.6)	90	(2.3)	351	(7.0)	407	(5.1)	469	(5.1)	529	(5.2)	582	(6.3)	231	(6.7)
<i>Catalonia</i>	462	(6.4)	102	(2.7)	329	(9.1)	394	(7.6)	465	(7.4)	535	(7.4)	592	(7.2)	263	(9.3)
<i>Ceuta</i>	404	(10.9)	89	(5.2)	289	(17.2)	343	(13.2)	402	(12.9)	468	(13.9)	522	(16.8)	232	(20.5)
<i>Comunidad Valenciana</i>	482	(4.0)	95	(2.1)	358	(7.0)	419	(5.4)	485	(4.9)	548	(4.3)	599	(5.5)	242	(8.5)
<i>Extremadura</i>	468	(6.4)	93	(2.5)	345	(8.6)	405	(7.5)	469	(7.2)	534	(7.7)	588	(8.4)	243	(9.2)
<i>Galicia</i>	485	(4.8)	91	(2.6)	364	(7.9)	428	(6.0)	490	(4.7)	549	(5.0)	599	(5.7)	235	(8.6)
<i>La Rioja</i>	487	(7.7)	97	(2.0)	357	(8.3)	421	(8.8)	490	(7.6)	555	(9.2)	609	(9.8)	251	(7.3)
<i>Madrid</i>	496	(4.2)	95	(2.6)	370	(7.7)	435	(5.2)	502	(4.6)	562	(4.3)	614	(5.8)	244	(8.6)
<i>Melilla</i>	405	(9.7)	100	(5.6)	288	(17.2)	335	(11.3)	394	(13.3)	471	(12.4)	540	(16.0)	252	(20.7)
<i>Murcia</i>	468	(5.1)	96	(2.5)	341	(6.2)	403	(6.2)	471	(6.6)	536	(5.9)	592	(7.4)	250	(8.0)
<i>Navarre</i>	478	(7.4)	94	(2.4)	354	(8.9)	412	(7.7)	479	(8.0)	545	(8.1)	599	(9.1)	245	(7.8)
United Kingdom																
<i>England*</i>	496	(2.8)	105	(1.8)	359	(4.5)	427	(3.6)	499	(3.3)	569	(3.3)	628	(4.1)	269	(5.1)
<i>Northern Ireland*</i>	485	(3.4)	100	(2.3)	353	(5.9)	416	(4.6)	488	(4.6)	555	(3.9)	612	(4.8)	259	(7.7)
<i>Scotland*</i>	493	(3.4)	103	(1.8)	361	(5.1)	424	(4.2)	494	(4.0)	564	(4.3)	623	(5.7)	263	(6.7)
<i>Wales*</i>	466	(3.7)	100	(1.8)	334	(5.1)	395	(4.8)	466	(4.4)	536	(4.8)	597	(4.6)	263	(5.5)

* Caution is required when interpreting estimates because one or more PISA sampling standards were not met (see Reader's Guide, Annexes A2 and A4).

** Caution is required when comparing estimates based on PISA 2022 with other countries/economies as a strong linkage to the international PISA reading scale could not be established (see Reader's Guide and Annex A4).

Notes: Values that are statistically significant are indicated in bold (see Annex A3).

PISA adjudicated region is shown in bold italic.

See Table I.B1.2.2 for national data.

Table I.B2.2. Mean score and variation in reading performance [2/2]

	Mean score		Standard deviation		Percentiles											
					10th		25th		Median (50th)		75th		90th		Difference (90th - 10th)	
	Mean score	S.E.	S.D.	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score dif.	S.E.
Partners																
Brazil																
<i>North</i>	382	(6.3)	95	(3.7)	261	(8.8)	317	(8.0)	380	(7.9)	446	(7.4)	506	(10.7)	245	(11.5)
<i>Northeast</i>	392	(4.0)	97	(2.2)	271	(4.5)	322	(4.2)	387	(4.9)	458	(5.1)	524	(6.7)	253	(7.3)
<i>South</i>	427	(4.3)	97	(2.6)	305	(6.2)	359	(5.5)	423	(5.4)	493	(6.7)	555	(7.6)	250	(9.5)
<i>Southeast</i>	420	(3.5)	101	(2.2)	292	(4.2)	349	(3.8)	417	(4.3)	489	(4.8)	553	(6.1)	261	(6.9)
<i>Middle-West</i>	424	(9.3)	100	(4.2)	297	(10.8)	354	(10.7)	422	(10.5)	493	(10.7)	558	(18.0)	261	(16.8)
Kazakhstan																
<i>Akmola region</i>	399	(7.0)	84	(3.5)	297	(6.9)	341	(6.7)	395	(7.7)	453	(10.2)	510	(12.1)	213	(11.8)
<i>Aktobe region</i>	383	(4.0)	75	(2.6)	292	(6.3)	331	(5.7)	379	(4.2)	431	(5.7)	482	(5.9)	189	(7.1)
<i>Almaty</i>	423	(5.8)	88	(3.1)	313	(7.2)	362	(6.7)	417	(6.7)	481	(7.9)	544	(9.6)	231	(10.1)
<i>Almaty region</i>	375	(5.8)	75	(3.4)	283	(5.8)	323	(5.7)	372	(5.4)	422	(6.2)	470	(10.6)	187	(9.7)
<i>Astana</i>	424	(7.1)	92	(4.1)	311	(8.2)	361	(5.8)	417	(7.0)	485	(11.4)	550	(13.1)	239	(13.0)
<i>Atyrau region</i>	378	(6.1)	71	(3.9)	291	(6.1)	330	(5.1)	373	(6.6)	421	(7.8)	470	(11.9)	179	(11.6)
<i>East-Kazakhstan region</i>	410	(7.4)	87	(5.2)	305	(8.3)	350	(6.5)	402	(6.7)	463	(10.6)	531	(17.9)	226	(18.0)
<i>Karagandy region</i>	402	(4.6)	81	(2.8)	304	(5.5)	347	(5.3)	397	(6.2)	455	(5.9)	510	(8.2)	206	(8.9)
<i>Kostanay region</i>	427	(8.3)	91	(3.7)	312	(7.2)	361	(6.1)	423	(10.0)	491	(12.5)	551	(13.4)	239	(12.4)
<i>Kyzyl-Orda region</i>	364	(4.0)	61	(2.2)	288	(7.7)	324	(4.9)	362	(4.2)	403	(4.3)	441	(4.0)	153	(7.3)
<i>North-Kazakhstan region</i>	417	(6.1)	83	(2.6)	311	(6.9)	356	(6.7)	413	(7.1)	474	(7.5)	527	(9.0)	216	(8.8)
<i>Pavlodar region</i>	400	(6.3)	82	(3.1)	298	(6.3)	340	(6.2)	395	(7.1)	455	(9.2)	508	(10.8)	210	(10.4)
<i>Shymkent</i>	366	(5.4)	74	(3.2)	277	(7.2)	317	(5.7)	362	(6.1)	410	(6.1)	458	(10.8)	180	(11.2)
<i>Turkestan region</i>	347	(6.8)	69	(3.0)	260	(7.0)	301	(6.5)	345	(7.1)	392	(8.9)	433	(11.1)	173	(9.5)
<i>West-Kazakhstan region</i>	387	(5.3)	72	(3.4)	301	(6.4)	339	(5.2)	382	(5.4)	429	(6.6)	483	(10.9)	182	(11.7)
<i>Zhambyl region</i>	353	(5.2)	65	(2.9)	274	(5.8)	310	(5.7)	351	(5.5)	395	(6.1)	435	(8.4)	160	(8.4)
Mongolia																
<i>Central</i>	398	(3.0)	73	(1.3)	304	(3.8)	347	(3.2)	399	(3.2)	449	(3.7)	493	(4.0)	189	(4.1)
<i>Khangai</i>	363	(5.2)	66	(1.7)	277	(7.0)	318	(5.9)	364	(5.6)	408	(5.3)	447	(7.0)	169	(6.4)
<i>Western</i>	326	(4.2)	77	(2.5)	228	(6.5)	270	(5.7)	325	(5.0)	380	(5.4)	429	(7.2)	201	(9.0)
Viet Nam																
<i>Central**</i>	452	(7.1)	77	(3.9)	351	(10.9)	403	(8.3)	456	(7.5)	504	(7.6)	547	(8.0)	196	(11.3)
<i>Northern**</i>	469	(6.4)	78	(4.0)	367	(11.5)	420	(8.1)	472	(6.5)	521	(6.1)	565	(8.2)	197	(12.5)
<i>Southern**</i>	461	(6.7)	76	(3.3)	362	(11.1)	412	(7.9)	463	(6.4)	514	(7.1)	557	(7.7)	196	(10.9)

* Caution is required when interpreting estimates because one or more PISA sampling standards were not met (see Reader's Guide, Annexes A2 and A4).

** Caution is required when comparing estimates based on PISA 2022 with other countries/economies as a strong linkage to the international PISA reading scale could not be established (see Reader's Guide and Annex A4).

Notes: Values that are statistically significant are indicated in bold (see Annex A3).

PISA adjudicated region is shown in bold italic.

See Table I.B1.2.2 for national data.

Table I.B2.3. Mean score and variation in science performance [1/2]

	Mean score		Standard deviation		Percentiles											
					10th		25th		Median (50th)		75th		90th		Difference (90th - 10th)	
	Mean score	S.E.	S.D.	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score dif.	S.E.
OECD																
Belgium																
<i>Flemish community</i>	499	(3.3)	102	(1.7)	358	(5.0)	426	(5.1)	506	(4.1)	575	(3.7)	627	(3.6)	269	(5.5)
<i>French community</i>	479	(3.5)	99	(2.2)	343	(6.1)	411	(4.9)	484	(3.8)	550	(4.6)	604	(5.3)	261	(8.0)
<i>German-speaking community</i>	487	(8.8)	83	(2.4)	374	(8.2)	430	(8.3)	494	(9.4)	547	(11.5)	594	(11.9)	220	(10.1)
Canada																
<i>Alberta*</i>	534	(6.8)	104	(2.9)	397	(9.5)	462	(8.9)	535	(8.2)	608	(8.4)	669	(9.2)	273	(11.7)
<i>British Columbia*</i>	519	(4.9)	100	(2.5)	389	(6.5)	450	(6.5)	520	(5.2)	588	(5.8)	645	(6.7)	256	(7.9)
<i>Manitoba*</i>	492	(4.0)	94	(1.9)	371	(6.5)	428	(5.7)	493	(4.3)	556	(4.2)	611	(4.7)	241	(6.4)
<i>New Brunswick</i>	483	(4.3)	97	(3.3)	358	(6.2)	417	(4.6)	482	(5.4)	549	(6.4)	608	(7.5)	250	(9.1)
<i>Newfoundland and Labrador*</i>	491	(5.2)	95	(2.8)	367	(7.2)	423	(7.5)	493	(6.2)	556	(6.5)	614	(9.3)	247	(10.1)
<i>Nova Scotia*</i>	492	(3.9)	97	(2.2)	365	(6.5)	422	(5.4)	491	(5.1)	560	(5.1)	619	(7.1)	253	(7.9)
<i>Ontario*</i>	517	(3.7)	101	(1.8)	384	(4.3)	447	(4.4)	518	(4.2)	586	(4.7)	646	(5.1)	261	(5.0)
<i>Prince Edward Island</i>	496	(13.4)	96	(5.0)	372	(15.9)	428	(14.5)	499	(13.3)	564	(16.2)	616	(18.9)	244	(16.4)
<i>Quebec*</i>	512	(4.2)	99	(2.0)	382	(6.0)	446	(4.8)	516	(5.3)	581	(4.9)	635	(5.7)	254	(6.9)
<i>Saskatchewan</i>	494	(3.1)	92	(2.0)	377	(5.5)	430	(4.0)	494	(3.5)	557	(4.3)	611	(5.9)	234	(7.9)
Colombia																
<i>Bogotá</i>	459	(5.5)	85	(3.0)	350	(7.0)	399	(6.2)	458	(6.0)	517	(6.3)	571	(8.8)	222	(9.7)
Italy																
<i>Bolzano</i>	495	(4.6)	90	(1.8)	376	(6.6)	433	(4.8)	498	(5.7)	556	(5.4)	609	(5.8)	233	(7.0)
<i>Trento</i>	495	(2.1)	85	(1.6)	380	(4.5)	438	(3.3)	499	(3.2)	554	(2.9)	602	(4.6)	222	(5.8)
Spain																
<i>Andalusia</i>	473	(4.9)	92	(2.1)	352	(5.6)	408	(6.3)	475	(6.2)	536	(5.8)	592	(6.6)	240	(7.9)
<i>Aragon</i>	499	(5.4)	92	(2.5)	378	(7.6)	437	(6.6)	502	(6.8)	563	(5.7)	617	(8.2)	239	(7.9)
<i>Asturias</i>	503	(6.3)	91	(2.1)	382	(8.2)	441	(7.5)	508	(6.4)	568	(7.0)	618	(8.1)	236	(8.4)
<i>Balearic Islands</i>	480	(5.2)	91	(2.1)	360	(6.8)	416	(6.1)	482	(5.6)	544	(6.3)	595	(6.8)	235	(7.1)
<i>Basque Country</i>	480	(4.6)	87	(1.7)	365	(6.2)	421	(5.3)	482	(4.3)	540	(4.9)	590	(5.1)	224	(5.8)
<i>Canary Islands</i>	473	(4.9)	87	(1.9)	361	(6.7)	414	(6.2)	472	(5.5)	532	(5.9)	585	(6.6)	224	(7.8)
<i>Cantabria</i>	504	(5.7)	87	(1.8)	389	(7.0)	445	(7.1)	508	(5.8)	566	(6.8)	613	(7.1)	224	(7.3)
<i>Castile and Leon</i>	506	(4.3)	89	(1.9)	389	(6.6)	447	(5.8)	509	(5.2)	568	(4.7)	619	(5.5)	230	(7.5)
<i>Castile-La Mancha</i>	475	(4.6)	85	(2.3)	365	(6.0)	417	(5.4)	478	(5.3)	534	(5.1)	583	(5.5)	218	(6.6)
<i>Catalonia</i>	477	(6.0)	94	(2.6)	355	(7.8)	412	(7.3)	478	(7.0)	543	(6.7)	599	(7.4)	244	(8.7)
<i>Ceuta</i>	410	(13.0)	88	(4.6)	299	(19.4)	348	(16.3)	410	(14.5)	468	(14.7)	525	(18.7)	226	(19.1)
<i>Comunidad Valenciana</i>	483	(4.4)	92	(2.0)	361	(6.1)	419	(5.8)	484	(5.7)	548	(5.0)	601	(5.6)	240	(6.6)
<i>Extremadura</i>	479	(6.5)	89	(2.0)	364	(8.1)	417	(6.9)	479	(7.3)	541	(6.7)	595	(9.2)	231	(7.8)
<i>Galicia</i>	506	(4.9)	87	(2.1)	391	(6.8)	447	(6.4)	510	(4.9)	566	(4.9)	616	(7.0)	225	(6.8)
<i>La Rioja</i>	500	(9.3)	91	(2.4)	380	(10.6)	436	(8.5)	502	(9.7)	564	(10.0)	616	(11.4)	236	(7.4)
<i>Madrid</i>	502	(3.8)	89	(2.2)	384	(6.7)	444	(4.6)	505	(4.3)	563	(4.0)	613	(5.6)	229	(7.5)
<i>Melilla</i>	414	(11.6)	92	(5.2)	302	(18.5)	349	(13.1)	406	(12.3)	475	(15.2)	541	(17.9)	239	(21.2)
<i>Murcia</i>	482	(5.4)	93	(2.2)	359	(6.5)	417	(6.7)	484	(6.3)	546	(5.6)	601	(6.5)	242	(6.8)
<i>Navarre</i>	489	(5.7)	89	(2.1)	372	(8.3)	426	(6.2)	491	(7.1)	553	(6.2)	605	(6.1)	232	(8.4)
United Kingdom																
<i>England*</i>	503	(2.7)	104	(1.7)	365	(3.8)	430	(3.5)	504	(3.4)	576	(3.6)	637	(4.4)	272	(5.3)
<i>Northern Ireland*</i>	488	(3.2)	100	(2.1)	356	(4.6)	418	(4.3)	489	(3.8)	559	(4.6)	618	(5.6)	262	(6.9)
<i>Scotland*</i>	483	(3.1)	101	(2.1)	353	(4.8)	413	(4.3)	483	(3.9)	555	(3.8)	614	(5.1)	261	(5.8)
<i>Wales*</i>	473	(3.8)	98	(1.8)	348	(4.7)	403	(4.1)	469	(4.3)	539	(4.9)	603	(5.2)	255	(5.8)

* Caution is required when interpreting estimates because one or more PISA sampling standards were not met (see Reader's Guide, Annexes A2 and A4).

Notes: Values that are statistically significant are indicated in bold (see Annex A3).

PISA adjudicated region is shown in bold italic.

See Table I.B1.2.3 for national data.

Table I.B2.3. Mean score and variation in science performance [2/2]

	Mean score		Standard deviation		Percentiles											
					10th		25th		Median (50th)		75th		90th		Difference (90th - 10th)	
	Mean score	S.E.	S.D.	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score	S.E.	Score dif.	S.E.
Partners																
Brazil																
<i>North</i>	380	(6.5)	87	(3.9)	272	(10.4)	322	(7.1)	374	(7.0)	436	(8.9)	495	(9.6)	222	(12.1)
<i>Northeast</i>	386	(4.1)	92	(2.3)	275	(4.6)	321	(3.6)	378	(4.6)	444	(5.1)	509	(8.2)	233	(8.3)
<i>South</i>	421	(4.5)	96	(2.8)	302	(5.4)	354	(5.3)	416	(5.3)	483	(6.2)	548	(7.9)	246	(8.6)
<i>Southeast</i>	413	(3.3)	94	(2.0)	297	(4.1)	346	(3.4)	406	(3.8)	473	(4.9)	538	(5.9)	241	(6.4)
<i>Middle-West</i>	411	(7.8)	93	(4.8)	294	(8.9)	345	(7.7)	407	(8.4)	470	(10.2)	533	(14.1)	240	(13.3)
Kazakhstan																
<i>Akmola region</i>	428	(6.5)	78	(3.1)	331	(6.2)	375	(6.4)	424	(6.8)	479	(9.6)	531	(11.0)	199	(10.5)
<i>Aktobe region</i>	425	(4.5)	68	(2.6)	343	(5.4)	379	(5.2)	421	(5.3)	466	(6.0)	515	(7.6)	173	(8.4)
<i>Almaty</i>	458	(6.1)	83	(2.4)	355	(7.7)	400	(7.8)	454	(7.5)	512	(7.8)	565	(6.8)	210	(7.7)
<i>Almaty region</i>	414	(5.5)	77	(4.0)	321	(8.2)	365	(5.6)	413	(5.9)	462	(6.4)	512	(11.0)	191	(12.1)
<i>Astana</i>	455	(7.5)	86	(4.5)	349	(10.3)	396	(6.9)	451	(7.5)	510	(9.5)	568	(15.3)	219	(16.2)
<i>Atyrau region</i>	406	(5.8)	71	(3.4)	321	(5.9)	358	(5.8)	401	(6.6)	449	(8.0)	499	(10.1)	178	(10.2)
<i>East-Kazakhstan region</i>	441	(7.3)	84	(4.8)	339	(8.5)	381	(6.7)	434	(7.3)	495	(10.6)	554	(15.1)	215	(15.9)
<i>Karagandy region</i>	427	(4.4)	78	(2.9)	331	(7.2)	374	(5.9)	426	(5.6)	479	(5.3)	527	(6.3)	196	(8.7)
<i>Kostanay region</i>	455	(8.6)	85	(4.2)	349	(8.7)	393	(7.9)	450	(9.0)	515	(12.5)	567	(13.3)	218	(13.0)
<i>Kyzyl-Orda region</i>	402	(4.6)	61	(2.1)	327	(5.6)	361	(5.0)	401	(5.0)	443	(6.5)	481	(6.3)	155	(6.5)
<i>North-Kazakhstan region</i>	450	(5.5)	80	(3.3)	348	(7.2)	395	(6.0)	446	(5.8)	504	(8.7)	555	(9.5)	207	(10.6)
<i>Pavlodar region</i>	432	(6.1)	80	(3.6)	335	(5.1)	376	(6.2)	428	(6.7)	483	(7.8)	539	(11.9)	204	(11.7)
<i>Shymkent</i>	407	(6.1)	73	(2.5)	317	(7.3)	357	(6.1)	404	(7.0)	453	(7.2)	500	(7.9)	183	(7.9)
<i>Turkestan region</i>	389	(6.3)	67	(3.5)	308	(6.9)	344	(6.2)	388	(6.6)	432	(7.8)	473	(9.6)	165	(9.5)
<i>West-Kazakhstan region</i>	424	(4.1)	66	(2.0)	343	(5.5)	378	(4.5)	420	(4.7)	465	(5.6)	511	(7.2)	169	(8.5)
<i>Zhambyl region</i>	400	(5.0)	63	(2.5)	319	(6.8)	359	(5.8)	399	(5.5)	440	(5.9)	479	(8.2)	161	(9.1)
Mongolia																
<i>Central</i>	430	(2.6)	74	(1.5)	337	(3.0)	378	(2.8)	427	(3.2)	481	(3.9)	529	(4.2)	192	(4.4)
<i>Khangai</i>	396	(5.7)	67	(2.7)	312	(6.2)	350	(5.4)	394	(5.8)	440	(7.2)	484	(8.9)	172	(8.7)
<i>Western</i>	367	(4.4)	74	(3.0)	274	(6.1)	313	(5.2)	363	(4.6)	416	(5.3)	465	(6.4)	192	(8.7)
Viet Nam																
<i>Central</i>	463	(6.3)	77	(3.0)	364	(9.1)	411	(7.3)	464	(6.8)	515	(6.9)	560	(7.0)	196	(8.9)
<i>Northern</i>	478	(5.9)	78	(3.3)	378	(8.7)	426	(7.0)	479	(6.1)	530	(5.6)	576	(7.0)	199	(9.5)
<i>Southern</i>	474	(6.0)	79	(2.9)	374	(8.1)	420	(6.6)	474	(6.0)	527	(6.9)	575	(7.6)	201	(8.9)

* Caution is required when interpreting estimates because one or more PISA sampling standards were not met (see Reader's Guide, Annexes A2 and A4).

Notes: Values that are statistically significant are indicated in bold (see Annex A3).

PISA adjudicated region is shown in bold italic.

See Table I.B1.2.3 for national data.

Table I.B2.23. Students' socio-economic status [1/2]

		Students' socio-economic status measured by the PISA index of economic, social and cultural status (ESCS)																			
		All students		Variability in the index		Bottom quarter		Second quarter		Third quarter		Fourth quarter		Top - Bottom quarter		10th percentile		90th percentile		90th - 10th percentile	
		Mean index	S.E.	S.D.	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.
OECD	Belgium																				
	<i>Flemish community</i>	0.18	(0.02)	0.89	(0.01)	-1.05	(0.03)	-0.04	(0.03)	0.62	(0.03)	1.18	(0.02)	2.23	(0.03)	-1.03	(0.02)	1.20	(0.02)	2.23	(0.02)
	<i>French community</i>	-0.04	(0.04)	0.95	(0.02)	-1.34	(0.05)	-0.30	(0.05)	0.40	(0.04)	1.07	(0.03)	2.41	(0.05)	-1.32	(0.05)	1.10	(0.03)	2.42	(0.05)
	<i>German-speaking community</i>	0.16	(0.03)	0.84	(0.02)	-0.98	(0.05)	-0.10	(0.06)	0.60	(0.04)	1.15	(0.02)	2.13	(0.05)	-0.97	(0.04)	1.17	(0.03)	2.14	(0.04)
	Canada																				
	<i>Alberta*</i>	0.40	(0.04)	0.76	(0.02)	-0.64	(0.06)	0.18	(0.06)	0.78	(0.04)	1.30	(0.03)	1.94	(0.05)	-0.66	(0.06)	1.32	(0.03)	1.98	(0.06)
	<i>British Columbia*</i>	0.43	(0.04)	0.75	(0.02)	-0.60	(0.05)	0.24	(0.05)	0.81	(0.04)	1.28	(0.02)	1.88	(0.04)	-0.63	(0.06)	1.28	(0.02)	1.91	(0.06)
	<i>Manitoba*</i>	0.18	(0.02)	0.84	(0.02)	-0.93	(0.03)	-0.08	(0.03)	0.55	(0.02)	1.17	(0.02)	2.10	(0.04)	-0.92	(0.05)	1.20	(0.03)	2.12	(0.05)
	<i>New Brunswick</i>	0.26	(0.02)	0.78	(0.01)	-0.79	(0.04)	0.02	(0.03)	0.61	(0.02)	1.20	(0.02)	1.99	(0.04)	-0.82	(0.03)	1.24	(0.03)	2.06	(0.05)
	<i>Newfoundland and Labrador*</i>	0.24	(0.04)	0.81	(0.02)	-0.84	(0.04)	-0.03	(0.05)	0.61	(0.05)	1.23	(0.03)	2.07	(0.04)	-0.89	(0.05)	1.23	(0.03)	2.12	(0.05)
	<i>Nova Scotia*</i>	0.27	(0.03)	0.77	(0.02)	-0.78	(0.04)	0.04	(0.04)	0.64	(0.03)	1.19	(0.02)	1.97	(0.04)	-0.80	(0.02)	1.20	(0.03)	2.00	(0.03)
	<i>Ontario*</i>	0.42	(0.03)	0.74	(0.01)	-0.61	(0.03)	0.24	(0.04)	0.77	(0.02)	1.27	(0.02)	1.88	(0.03)	-0.61	(0.04)	1.27	(0.02)	1.88	(0.03)
	<i>Prince Edward Island</i>	0.33	(0.05)	0.80	(0.04)	-0.77	(0.09)	0.15	(0.08)	0.73	(0.06)	1.23	(0.05)	2.00	(0.10)	-0.82	(0.20)	1.25	(0.05)	2.07	(0.21)
	<i>Quebec*</i>	0.36	(0.02)	0.73	(0.01)	-0.66	(0.03)	0.21	(0.03)	0.71	(0.02)	1.19	(0.01)	1.85	(0.03)	-0.68	(0.04)	1.20	(0.02)	1.87	(0.04)
	<i>Saskatchewan</i>	0.21	(0.02)	0.79	(0.02)	-0.84	(0.03)	-0.01	(0.03)	0.55	(0.03)	1.16	(0.02)	2.00	(0.04)	-0.83	(0.04)	1.19	(0.03)	2.02	(0.05)
	Colombia																				
	<i>Bogotá</i>	-0.43	(0.07)	1.07	(0.04)	-1.83	(0.07)	-0.82	(0.08)	0.02	(0.10)	0.91	(0.08)	2.74	(0.10)	-1.81	(0.07)	0.93	(0.07)	2.74	(0.09)
	Italy																				
	<i>Bolzano</i>	-0.03	(0.02)	0.84	(0.01)	-1.11	(0.02)	-0.33	(0.02)	0.27	(0.03)	1.06	(0.02)	2.17	(0.03)	-1.09	(0.03)	1.11	(0.03)	2.20	(0.04)
<i>Trento</i>	-0.04	(0.02)	0.85	(0.01)	-1.13	(0.03)	-0.31	(0.02)	0.28	(0.03)	1.03	(0.03)	2.16	(0.04)	-1.13	(0.03)	1.10	(0.03)	2.24	(0.04)	
Spain																					
<i>Andalusia</i>	-0.18	(0.05)	1.04	(0.03)	-1.62	(0.09)	-0.41	(0.06)	0.27	(0.07)	1.03	(0.04)	2.65	(0.08)	-1.67	(0.10)	1.06	(0.04)	2.73	(0.10)	
<i>Aragon</i>	0.00	(0.05)	0.97	(0.03)	-1.32	(0.08)	-0.22	(0.05)	0.44	(0.05)	1.10	(0.03)	2.41	(0.07)	-1.38	(0.08)	1.12	(0.02)	2.51	(0.07)	
<i>Asturias</i>	0.09	(0.05)	0.92	(0.03)	-1.14	(0.07)	-0.17	(0.05)	0.54	(0.06)	1.14	(0.03)	2.28	(0.07)	-1.16	(0.10)	1.15	(0.04)	2.32	(0.10)	
<i>Balearic Islands</i>	-0.05	(0.04)	0.97	(0.02)	-1.38	(0.07)	-0.26	(0.05)	0.37	(0.05)	1.06	(0.03)	2.45	(0.06)	-1.39	(0.06)	1.11	(0.04)	2.51	(0.07)	
<i>Basque Country</i>	0.18	(0.04)	0.87	(0.03)	-1.01	(0.08)	-0.02	(0.04)	0.62	(0.03)	1.11	(0.02)	2.12	(0.07)	-1.00	(0.09)	1.11	(0.02)	2.11	(0.09)	
<i>Canary Islands</i>	-0.21	(0.05)	0.97	(0.02)	-1.51	(0.05)	-0.47	(0.05)	0.21	(0.06)	0.95	(0.05)	2.46	(0.05)	-1.56	(0.06)	0.99	(0.05)	2.55	(0.06)	
<i>Cantabria</i>	0.03	(0.04)	0.89	(0.02)	-1.17	(0.05)	-0.22	(0.04)	0.44	(0.05)	1.09	(0.04)	2.26	(0.05)	-1.22	(0.06)	1.11	(0.04)	2.33	(0.06)	
<i>Castile and Leon</i>	0.08	(0.03)	0.92	(0.02)	-1.17	(0.05)	-0.16	(0.04)	0.53	(0.04)	1.14	(0.02)	2.31	(0.04)	-1.18	(0.06)	1.14	(0.02)	2.32	(0.06)	
<i>Castile-La Mancha</i>	-0.16	(0.04)	1.01	(0.02)	-1.54	(0.06)	-0.41	(0.05)	0.27	(0.05)	1.06	(0.03)	2.60	(0.06)	-1.57	(0.07)	1.11	(0.03)	2.68	(0.07)	
<i>Catalonia</i>	-0.02	(0.07)	1.04	(0.04)	-1.48	(0.12)	-0.19	(0.08)	0.50	(0.07)	1.10	(0.04)	2.58	(0.10)	-1.58	(0.10)	1.12	(0.03)	2.70	(0.08)	
<i>Ceuta</i>	-0.47	(0.07)	1.06	(0.05)	-1.90	(0.14)	-0.74	(0.07)	-0.05	(0.09)	0.80	(0.05)	2.70	(0.14)	-1.98	(0.12)	0.79	(0.06)	2.77	(0.13)	
<i>Comunidad Valenciana</i>	-0.10	(0.05)	0.98	(0.03)	-1.45	(0.08)	-0.34	(0.05)	0.34	(0.06)	1.05	(0.03)	2.50	(0.07)	-1.53	(0.07)	1.06	(0.04)	2.59	(0.07)	
<i>Extremadura</i>	-0.14	(0.04)	1.02	(0.02)	-1.55	(0.05)	-0.39	(0.05)	0.33	(0.06)	1.07	(0.04)	2.62	(0.04)	-1.66	(0.06)	1.09	(0.06)	2.75	(0.06)	
<i>Galicia</i>	0.07	(0.04)	0.92	(0.02)	-1.18	(0.06)	-0.19	(0.04)	0.48	(0.06)	1.16	(0.04)	2.34	(0.05)	-1.24	(0.10)	1.18	(0.04)	2.42	(0.09)	
<i>La Rioja</i>	-0.06	(0.03)	1.02	(0.03)	-1.46	(0.06)	-0.28	(0.03)	0.43	(0.03)	1.08	(0.02)	2.54	(0.06)	-1.48	(0.10)	1.11	(0.02)	2.58	(0.10)	
<i>Madrid</i>	0.25	(0.04)	0.95	(0.02)	-1.10	(0.05)	0.08	(0.06)	0.77	(0.04)	1.25	(0.03)	2.34	(0.05)	-1.14	(0.09)	1.26	(0.03)	2.40	(0.09)	
<i>Melilla</i>	-0.79	(0.09)	1.33	(0.05)	-2.65	(0.14)	-1.14	(0.15)	-0.17	(0.10)	0.81	(0.08)	3.45	(0.15)	-2.73	(0.11)	0.91	(0.04)	3.64	(0.11)	
<i>Murcia</i>	-0.24	(0.05)	1.13	(0.02)	-1.82	(0.06)	-0.54	(0.06)	0.30	(0.07)	1.07	(0.03)	2.88	(0.05)	-1.86	(0.07)	1.11	(0.04)	2.97	(0.07)	
<i>Navarre</i>	0.02	(0.04)	0.94	(0.02)	-1.27	(0.06)	-0.21	(0.05)	0.48	(0.05)	1.07	(0.02)	2.34	(0.06)	-1.27	(0.09)	1.09	(0.02)	2.36	(0.09)	
United Kingdom																					
<i>England*</i>	0.15	(0.03)	0.89	(0.02)	-1.04	(0.04)	-0.12	(0.03)	0.56	(0.03)	1.21	(0.02)	2.26	(0.03)	-1.05	(0.03)	1.23	(0.02)	2.28	(0.03)	
<i>Northern Ireland*</i>	0.08	(0.02)	0.89	(0.02)	-1.08	(0.04)	-0.24	(0.03)	0.48	(0.03)	1.18	(0.02)	2.26	(0.04)	-1.10	(0.04)	1.21	(0.02)	2.31	(0.04)	
<i>Scotland*</i>	0.02	(0.02)	0.90	(0.01)	-1.17	(0.03)	-0.28	(0.03)	0.40	(0.03)	1.15	(0.02)	2.32	(0.03)	-1.19	(0.03)	1.18	(0.02)	2.37	(0.03)	

* Caution is required when interpreting estimates because one or more PISA sampling standards were not met (see Reader's Guide, Annexes A2 and A4).

Notes: Values that are statistically significant are indicated in bold (see Annex A3).

PISA adjudicated region is shown in bold italic.

See Table I.B1.4.2 for national data.

Table I.B2.23. Students' socio-economic status [2/2]

		Students socio-economic status measured by the PISA index of economic, social and cultural status (ESCS)																			
		All students		Variability in the index		Bottom quarter		Second quarter		Third quarter		Fourth quarter		Top - Bottom quarter		10th percentile		90th percentile		90th - 10th percentile	
		Mean index	S.E.	S.D.	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.
Partners	Brazil																				
	<i>North</i>	-1.16	(0.07)	1.09	(0.03)	-2.60	(0.09)	-1.45	(0.08)	-0.79	(0.07)	0.19	(0.09)	2.79	(0.09)	-2.65	(0.12)	0.25	(0.11)	2.90	(0.12)
	<i>Northeast</i>	-1.34	(0.04)	1.13	(0.03)	-2.82	(0.05)	-1.69	(0.05)	-0.93	(0.04)	0.10	(0.06)	2.92	(0.07)	-2.86	(0.04)	0.15	(0.06)	3.01	(0.07)
	<i>South</i>	-0.86	(0.04)	1.12	(0.02)	-2.34	(0.04)	-1.22	(0.05)	-0.45	(0.05)	0.56	(0.04)	2.90	(0.05)	-2.43	(0.06)	0.65	(0.04)	3.08	(0.07)
	<i>Southeast</i>	-0.79	(0.03)	1.10	(0.02)	-2.23	(0.04)	-1.11	(0.03)	-0.38	(0.04)	0.58	(0.04)	2.81	(0.05)	-2.27	(0.05)	0.63	(0.05)	2.90	(0.06)
	<i>Middle-West</i>	-0.81	(0.09)	1.02	(0.03)	-2.16	(0.09)	-1.12	(0.08)	-0.42	(0.12)	0.45	(0.09)	2.61	(0.07)	-2.24	(0.17)	0.50	(0.09)	2.74	(0.15)
	Kazakhstan																				
	<i>Akmola region</i>	-0.41	(0.05)	0.81	(0.02)	-1.47	(0.05)	-0.66	(0.06)	-0.09	(0.05)	0.59	(0.05)	2.05	(0.04)	-1.49	(0.04)	0.59	(0.07)	2.08	(0.07)
	<i>Aktobe region</i>	-0.45	(0.03)	0.79	(0.01)	-1.49	(0.04)	-0.71	(0.05)	-0.13	(0.04)	0.55	(0.03)	2.03	(0.04)	-1.49	(0.04)	0.57	(0.02)	2.06	(0.04)
	<i>Almaty</i>	0.02	(0.07)	0.76	(0.03)	-1.05	(0.10)	-0.14	(0.09)	0.40	(0.06)	0.88	(0.04)	1.93	(0.09)	-1.08	(0.12)	0.88	(0.03)	1.96	(0.10)
	<i>Almaty region</i>	-0.57	(0.05)	0.83	(0.02)	-1.66	(0.05)	-0.89	(0.06)	-0.22	(0.06)	0.49	(0.05)	2.15	(0.05)	-1.65	(0.06)	0.53	(0.08)	2.18	(0.08)
	<i>Astana</i>	-0.05	(0.07)	0.79	(0.02)	-1.15	(0.07)	-0.27	(0.10)	0.32	(0.08)	0.87	(0.06)	2.02	(0.04)	-1.19	(0.05)	0.87	(0.06)	2.07	(0.05)
	<i>Atyrau region</i>	-0.30	(0.06)	0.79	(0.02)	-1.38	(0.07)	-0.54	(0.07)	0.07	(0.06)	0.65	(0.05)	2.03	(0.06)	-1.42	(0.05)	0.68	(0.05)	2.11	(0.05)
	<i>East-Kazakhstan region</i>	-0.41	(0.05)	0.81	(0.02)	-1.50	(0.06)	-0.68	(0.07)	-0.04	(0.07)	0.59	(0.04)	2.08	(0.06)	-1.53	(0.07)	0.61	(0.03)	2.14	(0.07)
	<i>Karagandy region</i>	-0.38	(0.05)	0.78	(0.03)	-1.40	(0.05)	-0.67	(0.06)	-0.06	(0.06)	0.59	(0.05)	1.99	(0.06)	-1.41	(0.07)	0.63	(0.05)	2.04	(0.08)
	<i>Kostanay region</i>	-0.37	(0.06)	0.78	(0.02)	-1.40	(0.06)	-0.64	(0.06)	-0.05	(0.07)	0.62	(0.05)	2.02	(0.06)	-1.43	(0.08)	0.65	(0.06)	2.08	(0.08)
	<i>Kyzyl-Orda region</i>	-0.56	(0.06)	0.84	(0.02)	-1.69	(0.06)	-0.85	(0.09)	-0.17	(0.07)	0.48	(0.04)	2.16	(0.05)	-1.74	(0.07)	0.53	(0.08)	2.27	(0.09)
	<i>North-Kazakhstan region</i>	-0.52	(0.04)	0.80	(0.01)	-1.54	(0.03)	-0.84	(0.06)	-0.21	(0.06)	0.52	(0.04)	2.06	(0.03)	-1.56	(0.02)	0.57	(0.04)	2.13	(0.04)
	<i>Pavlodar region</i>	-0.40	(0.05)	0.78	(0.02)	-1.42	(0.04)	-0.69	(0.07)	-0.09	(0.07)	0.59	(0.06)	2.02	(0.06)	-1.46	(0.03)	0.64	(0.05)	2.10	(0.05)
	<i>Shymkent</i>	-0.20	(0.05)	0.80	(0.03)	-1.31	(0.07)	-0.39	(0.05)	0.17	(0.04)	0.72	(0.06)	2.04	(0.07)	-1.35	(0.08)	0.73	(0.05)	2.08	(0.08)
<i>Turkestan region</i>	-0.51	(0.05)	0.84	(0.02)	-1.64	(0.05)	-0.79	(0.06)	-0.13	(0.07)	0.51	(0.04)	2.15	(0.06)	-1.71	(0.07)	0.53	(0.06)	2.23	(0.07)	
<i>West-Kazakhstan region</i>	-0.50	(0.06)	0.82	(0.02)	-1.58	(0.05)	-0.83	(0.07)	-0.13	(0.08)	0.53	(0.05)	2.11	(0.05)	-1.64	(0.05)	0.55	(0.06)	2.19	(0.06)	
<i>Zhambyl region</i>	-0.52	(0.05)	0.86	(0.01)	-1.66	(0.05)	-0.84	(0.06)	-0.15	(0.06)	0.55	(0.03)	2.22	(0.03)	-1.71	(0.03)	0.59	(0.04)	2.30	(0.03)	
Mongolia																					
<i>Central</i>	-0.42	(0.04)	0.96	(0.02)	-1.69	(0.04)	-0.73	(0.05)	0.02	(0.04)	0.74	(0.03)	2.43	(0.04)	-1.68	(0.05)	0.76	(0.04)	2.44	(0.05)	
<i>Khangai</i>	-1.18	(0.10)	1.06	(0.04)	-2.53	(0.05)	-1.56	(0.08)	-0.84	(0.14)	0.23	(0.14)	2.76	(0.11)	-2.58	(0.07)	0.31	(0.18)	2.89	(0.15)	
<i>Western</i>	-1.17	(0.08)	1.09	(0.03)	-2.57	(0.07)	-1.55	(0.09)	-0.81	(0.10)	0.24	(0.09)	2.81	(0.07)	-2.63	(0.09)	0.31	(0.09)	2.94	(0.09)	
Viet Nam																					
<i>Central</i>	-1.47	(0.08)	1.12	(0.05)	-2.83	(0.10)	-1.86	(0.07)	-1.25	(0.10)	0.05	(0.12)	2.88	(0.14)	-2.87	(0.09)	0.20	(0.09)	3.07	(0.12)	
<i>Northern</i>	-1.09	(0.08)	1.13	(0.05)	-2.47	(0.14)	-1.51	(0.07)	-0.82	(0.10)	0.42	(0.09)	2.90	(0.14)	-2.43	(0.16)	0.53	(0.08)	2.96	(0.16)	
<i>Southern</i>	-1.36	(0.07)	1.18	(0.04)	-2.79	(0.06)	-1.82	(0.05)	-1.10	(0.08)	0.27	(0.12)	3.06	(0.12)	-2.84	(0.08)	0.44	(0.15)	3.29	(0.17)	

* Caution is required when interpreting estimates because one or more PISA sampling standards were not met (see Reader's Guide, Annexes A2 and A4).

Notes: Values that are statistically significant are indicated in bold (see Annex A3).

PISA adjudicated region is shown in bold italic.

See Table I.B1.2.1 for national data.

Table I.B2.24. Socio-economic status and mathematics performance [1/2]

	Socio-economic gradient				Mathematics performance, by socio-economic status (ESCS) ¹									
					National quarter of ESCS									
	Strength: Percentage of variance in mathematics performance explained by ESCS		Slope: Score-point difference in mathematics performance associated with a one-unit increase in ESCS		Bottom quarter of ESCS		Second quarter of ESCS		Third quarter of ESCS		Top quarter of ESCS		Top - Bottom quarter	
					Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Score dif.	S.E.
%	S.E.	Score dif.	S.E.	Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Score dif.	S.E.	
OECD														
Belgium														
<i>Flemish community</i>	18.8	(1.3)	47	(2.0)	447	(4.3)	484	(4.3)	521	(4.8)	558	(3.8)	111	(4.9)
<i>French community</i>	24.6	(2.0)	47	(2.3)	421	(4.5)	450	(4.7)	494	(4.8)	539	(5.6)	118	(7.3)
<i>German-speaking community</i>	13.8	(2.7)	35	(3.7)	450	(9.0)	470	(8.6)	499	(9.0)	526	(7.6)	76	(9.6)
Canada														
<i>Alberta*</i>	12.8	(2.3)	46	(4.4)	457	(6.4)	490	(8.3)	520	(8.6)	550	(10.7)	92	(10.6)
<i>British Columbia*</i>	10.1	(1.8)	40	(3.5)	457	(7.1)	494	(5.6)	510	(5.5)	536	(6.5)	80	(8.7)
<i>Manitoba*</i>	8.4	(1.3)	30	(2.6)	439	(5.1)	462	(5.2)	483	(4.7)	502	(4.1)	63	(6.0)
<i>New Brunswick</i>	10.9	(1.9)	38	(3.4)	435	(6.1)	457	(5.3)	476	(5.7)	511	(6.4)	76	(8.5)
<i>Newfoundland and Labrador*</i>	8.2	(2.6)	31	(4.7)	430	(9.8)	447	(8.0)	469	(8.3)	492	(7.6)	62	(11.0)
<i>Nova Scotia*</i>	9.0	(1.9)	36	(4.0)	439	(6.4)	454	(6.6)	481	(7.0)	516	(7.3)	77	(9.0)
<i>Ontario*</i>	8.4	(1.2)	36	(2.7)	463	(4.8)	487	(4.2)	507	(4.6)	534	(5.1)	71	(6.8)
<i>Prince Edward Island</i>	11.6	(4.2)	38	(6.8)	440	(13.2)	474	(14.8)	505	(17.4)	518	(12.9)	79	(16.8)
<i>Quebec*</i>	11.9	(1.5)	44	(3.1)	473	(5.2)	503	(5.4)	531	(5.1)	555	(5.1)	82	(6.9)
<i>Saskatchewan</i>	8.5	(1.5)	32	(2.9)	441	(5.4)	457	(4.4)	471	(5.2)	506	(5.1)	65	(6.7)
Colombia														
<i>Bogotá</i>	21.5	(4.4)	32	(3.8)	388	(5.9)	401	(5.5)	422	(6.9)	480	(11.8)	91	(13.5)
Italy														
<i>Bolzano</i>	8.3	(1.4)	28	(2.3)	452	(4.9)	480	(5.4)	482	(4.5)	515	(4.5)	63	(6.3)
<i>Trento</i>	12.6	(1.6)	35	(2.3)	451	(4.0)	487	(3.6)	498	(4.0)	529	(3.5)	78	(5.3)
Spain														
<i>Andalusia</i>	12.8	(2.8)	30	(3.2)	422	(6.2)	440	(5.9)	469	(7.0)	500	(9.5)	79	(10.6)
<i>Aragon</i>	13.2	(1.9)	32	(2.6)	448	(5.7)	477	(7.9)	503	(6.7)	526	(7.4)	78	(7.8)
<i>Asturias</i>	17.7	(2.3)	39	(2.5)	450	(5.7)	478	(6.5)	512	(7.8)	544	(6.0)	93	(7.3)
<i>Balearic Islands</i>	11.5	(1.7)	29	(2.3)	434	(5.5)	463	(5.1)	481	(5.9)	507	(6.3)	73	(7.6)
<i>Basque Country</i>	15.9	(2.2)	38	(2.4)	437	(6.5)	472	(4.9)	506	(4.7)	519	(4.2)	82	(6.9)
<i>Canary Islands</i>	11.8	(2.3)	29	(3.1)	413	(6.7)	434	(6.1)	456	(5.1)	490	(10.2)	77	(11.1)
<i>Cantabria</i>	7.5	(1.8)	25	(3.1)	467	(6.3)	483	(5.7)	507	(6.5)	527	(6.9)	60	(8.7)
<i>Castile and Leon</i>	11.1	(1.8)	30	(2.7)	463	(5.9)	494	(5.1)	509	(5.8)	539	(6.1)	76	(7.1)
<i>Castile-La Mancha</i>	12.5	(1.9)	28	(2.1)	427	(6.0)	455	(5.0)	476	(5.5)	500	(5.3)	73	(7.1)
<i>Catalonia</i>	15.4	(2.1)	33	(2.5)	426	(6.3)	458	(8.4)	477	(7.8)	521	(7.3)	96	(8.5)
<i>Ceuta</i>	10.3	(3.9)	25	(5.0)	368	(11.7)	374	(12.7)	411	(11.8)	429	(10.6)	61	(14.6)
<i>Comunidad Valenciana</i>	9.9	(2.2)	27	(2.8)	442	(5.9)	460	(6.1)	482	(5.7)	510	(6.9)	69	(8.9)
<i>Extremadura</i>	13.1	(1.9)	30	(2.5)	437	(6.3)	450	(6.1)	477	(6.9)	514	(7.4)	77	(8.9)
<i>Galicia</i>	9.3	(1.6)	27	(2.4)	454	(5.0)	477	(6.0)	495	(6.1)	521	(5.2)	67	(6.6)
<i>La Rioja</i>	12.8	(2.0)	30	(2.6)	451	(5.5)	486	(6.5)	503	(6.7)	534	(6.3)	83	(7.8)
<i>Madrid</i>	15.1	(2.1)	35	(2.9)	448	(6.5)	483	(5.9)	513	(6.3)	539	(3.7)	91	(7.6)
<i>Melilla</i>	16.5	(3.9)	26	(3.6)	369	(9.5)	383	(14.0)	416	(14.8)	458	(13.4)	89	(15.0)
<i>Murcia</i>	16.1	(2.0)	30	(1.9)	423	(7.0)	450	(5.9)	471	(6.2)	515	(5.7)	93	(7.4)
<i>Navarre</i>	10.3	(1.8)	28	(2.7)	460	(5.9)	479	(6.2)	504	(5.7)	531	(5.9)	71	(7.1)
United Kingdom														
<i>England*</i>	10.4	(1.5)	36	(2.9)	463	(4.1)	483	(4.2)	499	(3.8)	549	(6.0)	86	(7.3)
<i>Northern Ireland*</i>	11.9	(1.6)	36	(2.4)	441	(4.8)	460	(5.6)	489	(4.7)	522	(5.5)	81	(6.0)
<i>Scotland*</i>	15.9	(1.6)	41	(2.4)	428	(3.7)	460	(4.8)	480	(4.2)	526	(4.5)	98	(5.9)
<i>Wales*</i>	9.9	(1.5)	33	(2.7)	435	(4.7)	461	(6.2)	470	(4.9)	511	(5.5)	76	(6.4)

1. ESCS refers to the PISA index of economic, social and cultural status.

* Caution is required when interpreting estimates because one or more PISA sampling standards were not met (see Reader's Guide, Annexes A2 and A4).

Notes: Values that are statistically significant are indicated in bold (see Annex A3). PISA adjudicated region is shown in bold. See Table I.B1.4.3 for national data.

Table I.B2.24. Socio-economic status and mathematics performance [2/2]

	Socio-economic gradient				Mathematics performance, by socio-economic status (ESCS)									
					National quarter of ESCS									
	Strength: Percentage of variance in mathematics performance explained by ESCS		Slope: Score-point difference in mathematics performance associated with a one-unit increase in ESCS		Bottom quarter of ESCS		Second quarter of ESCS		Third quarter of ESCS		Top quarter of ESCS		Top - Bottom quarter	
					Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Score dif.	S.E.
%	S.E.	Score dif.	S.E.	Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Score dif.	S.E.	
Partners														
Brazil														
<i>North</i>	10.6	(3.4)	20	(3.6)	332	(5.7)	350	(4.9)	360	(7.1)	389	(10.0)	57	(10.4)
<i>Northeast</i>	8.9	(2.1)	19	(2.5)	339	(2.9)	356	(3.3)	363	(4.2)	394	(8.2)	55	(7.7)
<i>South</i>	16.0	(2.1)	28	(2.2)	362	(4.4)	378	(4.5)	396	(5.6)	442	(7.2)	80	(7.7)
<i>Southeast</i>	16.2	(2.0)	29	(2.0)	356	(3.1)	374	(3.2)	390	(4.2)	440	(6.3)	84	(6.5)
<i>Middle-West</i>	14.1	(3.3)	28	(4.0)	354	(6.5)	365	(7.7)	392	(9.0)	424	(12.7)	71	(12.3)
Kazakhstan														
<i>Akmola region</i>	1.6	(1.2)	11	(4.7)	408	(6.0)	414	(7.1)	421	(8.5)	434	(9.7)	26	(11.1)
<i>Aktobe region</i>	1.5	(0.8)	11	(3.0)	431	(5.5)	429	(6.6)	436	(5.7)	451	(6.2)	20	(6.6)
<i>Almaty</i>	8.1	(2.1)	31	(4.6)	424	(7.7)	439	(7.2)	463	(11.1)	485	(8.5)	61	(10.8)
<i>Almaty region</i>	1.3	(1.1)	10	(4.1)	406	(6.7)	402	(5.7)	415	(6.7)	425	(7.6)	19	(8.9)
<i>Astana</i>	10.3	(2.7)	34	(5.6)	416	(7.0)	438	(10.7)	455	(6.8)	488	(14.3)	72	(15.2)
<i>Atyrau region</i>	5.2	(2.1)	21	(4.3)	384	(7.1)	400	(7.8)	402	(7.0)	434	(9.7)	50	(10.9)
<i>East-Kazakhstan region</i>	6.4	(2.5)	26	(5.6)	407	(8.3)	421	(8.1)	437	(8.1)	464	(13.6)	56	(14.3)
<i>Karagandy region</i>	2.8	(1.4)	16	(4.1)	407	(6.3)	415	(5.4)	426	(7.9)	436	(6.7)	29	(9.0)
<i>Kostanay region</i>	3.5	(1.8)	19	(5.3)	424	(7.3)	426	(10.2)	450	(11.7)	460	(11.5)	36	(11.1)
<i>Kyzyl-Orda region</i>	2.6	(1.1)	13	(2.6)	403	(7.1)	404	(5.7)	421	(7.3)	427	(7.4)	24	(7.3)
<i>North-Kazakhstan region</i>	3.8	(1.7)	19	(4.4)	426	(6.7)	434	(5.9)	440	(7.3)	465	(9.1)	38	(8.8)
<i>Pavlodar region</i>	5.2	(2.1)	22	(4.7)	404	(5.4)	424	(6.2)	425	(8.5)	454	(11.0)	50	(10.5)
<i>Shymkent</i>	2.7	(1.2)	15	(3.0)	394	(6.2)	398	(8.5)	409	(6.6)	425	(6.9)	31	(8.2)
<i>Turkestan region</i>	1.2	(1.4)	9	(5.8)	386	(5.9)	380	(8.4)	382	(9.0)	409	(14.3)	23	(14.8)
<i>West-Kazakhstan region</i>	4.6	(1.6)	18	(3.1)	406	(4.5)	420	(6.5)	426	(6.0)	445	(6.1)	39	(6.9)
<i>Zhambyl region</i>	1.4	(0.8)	9	(2.5)	426	(6.1)	428	(8.3)	437	(6.5)	443	(5.8)	17	(5.7)
Mongolia														
<i>Central</i>	17.5	(1.7)	37	(2.2)	403	(3.1)	425	(4.6)	447	(4.5)	496	(6.0)	93	(6.8)
<i>Khangai</i>	13.1	(3.0)	25	(2.9)	382	(5.6)	391	(4.8)	416	(8.8)	447	(10.8)	65	(10.7)
<i>Western</i>	9.7	(2.9)	23	(3.7)	357	(6.9)	368	(6.4)	380	(6.1)	420	(8.9)	63	(11.2)
Viet Nam														
<i>Central</i>	12.9	(3.0)	27	(3.4)	428	(10.1)	452	(7.9)	464	(6.0)	500	(10.1)	72	(12.5)
<i>Northern</i>	12.7	(3.5)	27	(4.4)	445	(13.0)	473	(6.1)	480	(6.9)	523	(10.9)	78	(15.1)
<i>Southern</i>	13.8	(3.8)	27	(4.0)	433	(7.5)	443	(7.3)	467	(9.3)	510	(12.8)	77	(13.9)

1. ESCS refers to the PISA index of economic, social and cultural status.

* Caution is required when interpreting estimates because one or more PISA sampling standards were not met (see Reader's Guide, Annexes A2 and A4).

Notes: Values that are statistically significant are indicated in bold (see Annex A3). PISA adjudicated region is shown in bold. See Table I.B1.4.3 for national data.

Table I.B2.36. Percentage of students with an immigrant background [1/2]

Based on students' reports

OECD		Immigrant students							
		Non-immigrant students		All immigrant students		Second-generation immigrant students		First-generation immigrant students	
		%	S.E.	%	S.E.	%	S.E.	%	S.E.
	Belgium								
	<i>Flemish community</i>	82.2	(1.1)	17.8	(1.1)	9.7	(0.7)	8.2	(0.6)
	<i>French community</i>	76.1	(2.0)	23.9	(2.0)	14.1	(1.3)	9.8	(1.0)
	<i>German-speaking community</i>	72.4	(1.5)	27.6	(1.5)	8.5	(1.1)	19.2	(1.4)
	Canada								
	<i>Alberta*</i>	60.4	(3.7)	39.6	(3.7)	18.6	(2.0)	21.0	(2.1)
	<i>British Columbia*</i>	63.6	(2.3)	36.4	(2.3)	17.2	(1.5)	19.1	(1.3)
	<i>Manitoba*</i>	72.2	(1.4)	27.8	(1.4)	7.8	(0.6)	20.0	(1.2)
	<i>New Brunswick</i>	91.2	(0.8)	8.8	(0.8)	1.0	(0.3)	7.8	(0.7)
	<i>Newfoundland and Labrador*</i>	95.5	(0.8)	4.5	(0.8)	0.7	(0.3)	3.9	(0.7)
	<i>Nova Scotia*</i>	91.0	(1.1)	9.0	(1.1)	3.1	(0.6)	6.0	(0.9)
	<i>Ontario*</i>	58.0	(2.2)	42.0	(2.2)	26.2	(1.8)	15.8	(1.0)
	<i>Prince Edward Island</i>	88.2	(2.0)	11.8	(2.0)	1.0	(0.7)	10.8	(1.9)
	<i>Quebec*</i>	72.2	(2.5)	27.8	(2.5)	14.0	(1.5)	13.8	(1.3)
	<i>Saskatchewan</i>	78.4	(1.0)	21.6	(1.0)	5.1	(0.6)	16.5	(0.9)
	Colombia								
	<i>Bogotá</i>	97.0	(0.5)	3.0	(0.5)	0.4	(0.1)	2.6	(0.4)
	Italy								
	<i>Bolzano</i>	87.7	(0.7)	12.3	(0.7)	7.6	(0.5)	4.7	(0.5)
	<i>Trento</i>	84.7	(1.0)	15.3	(1.0)	11.4	(1.0)	4.0	(0.4)
	Spain								
	<i>Andalusia</i>	91.2	(1.3)	8.8	(1.3)	5.0	(0.9)	3.8	(0.6)
	<i>Aragon</i>	82.6	(1.8)	17.4	(1.8)	11.2	(1.3)	6.1	(0.9)
	<i>Asturias</i>	92.4	(0.9)	7.6	(0.9)	3.0	(0.4)	4.6	(0.6)
	<i>Balearic Islands</i>	78.6	(1.9)	21.4	(1.9)	13.3	(1.5)	8.1	(0.9)
	<i>Basque Country</i>	87.9	(1.7)	12.1	(1.7)	5.3	(0.7)	6.8	(1.2)
	<i>Canary Islands</i>	87.1	(2.0)	12.9	(2.0)	6.8	(1.2)	6.1	(0.9)
	<i>Cantabria</i>	90.8	(1.1)	9.2	(1.1)	4.2	(0.5)	5.1	(0.9)
	<i>Castile and Leon</i>	91.6	(0.8)	8.4	(0.8)	5.5	(0.6)	2.9	(0.5)
	<i>Castile-La Mancha</i>	84.7	(1.9)	15.3	(1.9)	9.8	(1.4)	5.5	(0.9)
	<i>Catalonia</i>	76.1	(2.8)	23.9	(2.8)	14.4	(1.6)	9.4	(1.4)
	<i>Ceuta</i>	91.1	(1.9)	8.9	(1.9)	8.7	(1.9)	0.2	(0.2)
	<i>Comunidad Valenciana</i>	82.9	(2.0)	17.1	(2.0)	9.2	(1.0)	7.9	(1.4)
	<i>Extremadura</i>	96.1	(0.5)	3.9	(0.5)	1.8	(0.3)	2.1	(0.4)
	<i>Galicia</i>	92.7	(1.1)	7.3	(1.1)	3.0	(0.6)	4.3	(0.7)
	<i>La Rioja</i>	81.2	(1.1)	18.8	(1.1)	11.8	(1.0)	7.0	(0.8)
	<i>Madrid</i>	80.4	(1.6)	19.6	(1.6)	11.4	(1.0)	8.2	(1.2)
	<i>Melilla</i>	73.6	(3.0)	26.4	(3.0)	23.0	(3.0)	3.4	(1.4)
	<i>Murcia</i>	81.4	(1.9)	18.6	(1.9)	13.0	(1.5)	5.5	(0.8)
	<i>Navarre</i>	79.8	(2.0)	20.2	(2.0)	11.8	(1.3)	8.4	(1.1)
	United Kingdom								
	<i>England*</i>	78.2	(1.3)	21.8	(1.3)	12.4	(0.9)	9.4	(0.8)
	<i>Northern Ireland*</i>	87.7	(0.9)	12.3	(0.9)	3.7	(0.5)	8.6	(0.7)
	<i>Scotland*</i>	88.0	(1.0)	12.0	(1.0)	4.8	(0.4)	7.2	(0.7)
	<i>Wales*</i>	89.6	(1.4)	10.4	(1.4)	5.9	(0.9)	4.4	(0.8)

* Caution is required when interpreting estimates because one or more PISA sampling standards were not met (see Reader's Guide, Annexes A2 and A4).

Notes: PISA adjudicated region is shown in bold.

See Table I.B1.7.1 for national data.

Table I.B2.36. Percentage of students with an immigrant background [2/2]

Based on students' reports

	Non-immigrant students		Immigrant students					
			All immigrant students		Second-generation immigrant students		First-generation immigrant students	
	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Partners								
Brazil								
<i>North</i>	99.5	(0.2)	0.5	(0.2)	0.1	(0.1)	0.4	(0.2)
<i>Northeast</i>	99.8	(0.1)	0.2	(0.1)	0.1	(0.1)	0.1	(0.1)
<i>South</i>	99.0	(0.4)	1.0	(0.4)	0.4	(0.2)	0.5	(0.2)
<i>Southeast</i>	99.5	(0.1)	0.5	(0.1)	0.3	(0.1)	0.2	(0.1)
<i>Middle-West</i>	99.0	(0.4)	1.0	(0.4)	0.7	(0.3)	0.3	(0.2)
Kazakhstan								
<i>Akmola region</i>	92.9	(1.6)	7.1	(1.6)	5.3	(1.4)	1.8	(0.4)
<i>Aktobe region</i>	96.8	(0.9)	3.2	(0.9)	2.0	(0.5)	1.2	(0.5)
<i>Almaty</i>	94.2	(1.3)	5.8	(1.3)	3.8	(0.9)	2.0	(0.6)
<i>Almaty region</i>	84.9	(2.2)	15.1	(2.2)	7.1	(0.9)	8.0	(1.5)
<i>Astana</i>	95.1	(0.7)	4.9	(0.7)	2.5	(0.5)	2.5	(0.5)
<i>Atyrau region</i>	99.1	(0.2)	0.9	(0.2)	0.5	(0.2)	0.4	(0.2)
<i>East-Kazakhstan region</i>	98.3	(0.5)	1.7	(0.5)	0.8	(0.3)	0.9	(0.4)
<i>Karagandy region</i>	90.0	(3.0)	10.0	(3.0)	7.4	(2.4)	2.6	(1.0)
<i>Kostanay region</i>	92.9	(2.7)	7.1	(2.7)	4.0	(1.2)	3.1	(1.6)
<i>Kyzyl-Orda region</i>	98.1	(0.6)	1.9	(0.6)	1.9	(0.6)	0.0	c
<i>North-Kazakhstan region</i>	95.9	(0.9)	4.1	(0.9)	2.5	(0.5)	1.6	(0.7)
<i>Pavlodar region</i>	96.1	(0.7)	3.9	(0.7)	2.7	(0.5)	1.2	(0.5)
<i>Shymkent</i>	92.9	(1.6)	7.1	(1.6)	2.7	(0.7)	4.4	(1.1)
<i>Turkestan region</i>	93.7	(1.6)	6.3	(1.6)	3.5	(1.0)	2.8	(0.7)
<i>West-Kazakhstan region</i>	98.3	(0.4)	1.7	(0.4)	1.1	(0.2)	0.6	(0.4)
<i>Zhambyl region</i>	91.7	(2.5)	8.3	(2.5)	4.8	(1.1)	3.5	(1.5)
Mongolia								
<i>Central</i>	99.8	(0.1)	0.2	(0.1)	0.2	(0.1)	0.0	(0.0)
<i>Khangai</i>	99.8	(0.1)	0.2	(0.1)	0.1	(0.1)	0.1	(0.1)
<i>Western</i>	98.8	(0.5)	1.2	(0.5)	0.4	(0.3)	0.7	(0.2)
Viet Nam								
<i>Central</i>	99.9	(0.1)	0.1	(0.1)	0.0	c	0.1	(0.1)
<i>Northern</i>	99.9	(0.1)	0.1	(0.1)	0.0	(0.0)	0.1	(0.1)
<i>Southern</i>	99.9	(0.1)	0.1	(0.1)	0.1	(0.1)	0.0	c

* Caution is required when interpreting estimates because one or more PISA sampling standards were not met (see Reader's Guide, Annexes A2 and A4).

Notes: PISA adjudicated region is shown in bold.

See Table I.B1.7.1 for national data.

Table I.B2.39. Mathematics performance of students with an immigrant background [1/2]

OECD		Mathematics performance											
		All students		Non-immigrant students		Immigrant students						Difference between immigrant and non-immigrant students	
						All immigrant students		Second-generation immigrant students		First-generation immigrant students			
		Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Score dif.	S.E.
	Belgium												
	<i>Flemish community</i>	501	(3.0)	514	(3.2)	454	(5.0)	461	(5.7)	445	(7.0)	-61	(5.6)
	<i>French community</i>	474	(3.1)	489	(3.4)	439	(5.3)	444	(5.7)	432	(8.2)	-50	(5.7)
	<i>German-speaking community</i>	483	(5.2)	499	(5.7)	447	(7.0)	436	(11.8)	452	(8.0)	-52	(6.8)
	Canada												
	<i>Alberta*</i>	504	(5.7)	500	(5.4)	513	(10.8)	527	(13.2)	501	(11.1)	13	(10.8)
	<i>British Columbia*</i>	496	(4.4)	491	(5.1)	519	(5.6)	520	(8.0)	519	(6.6)	28	(6.1)
	<i>Manitoba*</i>	470	(2.7)	472	(3.5)	477	(4.6)	473	(8.4)	478	(5.9)	5	(5.9)
	<i>New Brunswick</i>	468	(3.1)	469	(3.4)	498	(12.6)	c	c	497	(13.7)	29	(13.2)
	<i>Newfoundland and Labrador*</i>	459	(5.5)	460	(5.6)	462	(20.8)	c	c	458	(21.7)	2	(20.1)
	<i>Nova Scotia*</i>	470	(3.6)	471	(3.9)	506	(13.0)	510	(18.8)	504	(17.1)	35	(12.9)
	<i>Ontario*</i>	495	(3.0)	492	(3.2)	511	(4.6)	519	(5.0)	498	(6.5)	19	(5.0)
	<i>Prince Edward Island</i>	478	(6.6)	482	(7.9)	c	c	c	c	c	c	c	c
	<i>Quebec*</i>	514	(3.9)	524	(3.8)	500	(5.7)	507	(7.1)	493	(6.8)	-24	(5.5)
	<i>Saskatchewan</i>	468	(2.6)	470	(3.0)	475	(5.1)	501	(12.7)	467	(5.7)	5	(5.6)
	Colombia												
	<i>Bogotá</i>	423	(5.0)	424	(4.8)	393	(13.4)	c	c	395	(14.4)	-31	(11.4)
	Italy												
	<i>Bolzano</i>	482	(3.1)	490	(3.5)	434	(5.8)	441	(8.0)	423	(7.9)	-56	(6.8)
	<i>Trento</i>	491	(1.9)	499	(2.1)	456	(5.6)	465	(6.6)	430	(8.8)	-44	(6.1)
	Spain												
	<i>Andalusia</i>	457	(4.9)	459	(4.8)	455	(10.0)	467	(14.9)	439	(10.5)	-4	(8.6)
	<i>Aragon</i>	487	(4.6)	499	(4.8)	445	(7.9)	454	(6.9)	429	(13.2)	-54	(9.1)
	<i>Asturias</i>	495	(4.4)	501	(4.5)	442	(9.9)	462	(12.8)	429	(12.9)	-59	(9.9)
	<i>Balearic Islands</i>	471	(3.8)	481	(4.6)	444	(5.6)	450	(8.5)	435	(7.9)	-37	(6.8)
	<i>Basque Country</i>	482	(4.0)	493	(3.4)	423	(7.5)	433	(7.6)	416	(10.5)	-70	(7.4)
	<i>Canary Islands</i>	447	(4.5)	450	(4.9)	446	(9.8)	457	(9.0)	433	(14.1)	-4	(8.7)
	<i>Cantabria</i>	495	(4.6)	499	(5.0)	468	(8.3)	480	(11.8)	458	(10.5)	-31	(9.1)
	<i>Castile and Leon</i>	499	(3.8)	506	(3.8)	459	(9.4)	472	(10.5)	435	(14.8)	-47	(10.5)
	<i>Castile-La Mancha</i>	464	(3.4)	472	(4.0)	432	(6.8)	440	(8.3)	419	(9.4)	-40	(7.4)
	<i>Catalonia</i>	469	(5.8)	484	(5.3)	441	(6.5)	451	(7.3)	426	(9.5)	-43	(5.7)
	<i>Ceuta</i>	395	(6.3)	401	(6.7)	c	c	c	c	c	c	c	c
	<i>Comunidad Valenciana</i>	473	(3.9)	479	(4.4)	457	(5.9)	471	(7.1)	441	(10.3)	-22	(7.0)
	<i>Extremadura</i>	469	(4.9)	472	(5.1)	436	(11.5)	c	c	456	(15.8)	-36	(12.1)
	<i>Galicia</i>	486	(3.7)	491	(3.7)	444	(6.4)	463	(10.5)	432	(9.8)	-47	(7.0)
	<i>La Rioja</i>	493	(4.1)	504	(4.7)	455	(6.3)	470	(8.0)	431	(10.4)	-49	(7.1)
	<i>Madrid</i>	494	(3.6)	504	(3.6)	462	(5.5)	477	(5.4)	442	(9.5)	-42	(6.0)
	<i>Melilla</i>	404	(6.0)	422	(7.6)	378	(10.5)	380	(10.1)	c	c	-44	(11.9)
	<i>Murcia</i>	463	(4.4)	476	(4.5)	424	(6.7)	435	(7.2)	398	(10.4)	-53	(6.5)
	<i>Navarre</i>	492	(4.2)	503	(4.8)	463	(5.7)	473	(6.9)	449	(9.3)	-40	(7.3)
	United Kingdom												
	<i>England*</i>	492	(2.6)	499	(2.9)	498	(6.2)	509	(6.7)	485	(7.7)	-1	(6.2)
	<i>Northern Ireland*</i>	475	(3.0)	481	(3.6)	463	(6.1)	480	(10.0)	455	(7.8)	-18	(6.4)
	<i>Scotland*</i>	471	(2.6)	472	(2.8)	481	(5.6)	492	(8.2)	473	(8.2)	8	(5.8)
	<i>Wales*</i>	466	(3.2)	468	(3.4)	481	(10.5)	481	(11.1)	481	(13.0)	13	(10.8)

* Caution is required when interpreting estimates because one or more PISA sampling standards were not met (see Reader's Guide, Annexes A2 and A4).

Notes: Values that are statistically significant are indicated in bold (see Annex A3).

PISA adjudicated region is shown in bold.

See Table I.B1.7.17 for national data.

Table I.B2.39. Mathematics performance of students with an immigrant background [2/2]

	Mathematics performance											
	All students		Non-immigrant students		Immigrant students						Difference between immigrant and non-immigrant students	
					All immigrant students		Second-generation immigrant students		First-generation immigrant students			
	Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Mean score	S.E.	Score dif.	S.E.
Partners												
Brazil												
<i>North</i>	357	(4.7)	362	(4.6)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>
<i>Northeast</i>	363	(3.2)	368	(3.5)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>
<i>South</i>	394	(3.5)	397	(3.8)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>
<i>Southeast</i>	388	(2.8)	395	(2.9)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>
<i>Middle-West</i>	384	(6.9)	389	(6.8)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>
Kazakhstan												
<i>Akmola region</i>	419	(5.6)	420	(6.0)	425	(8.5)	427	(8.2)	<i>c</i>	<i>c</i>	6	(9.3)
<i>Aktobe region</i>	437	(4.1)	437	(4.2)	441	(16.3)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	5	(17.0)
<i>Almaty</i>	453	(6.5)	454	(6.8)	439	(9.2)	432	(10.4)	<i>c</i>	<i>c</i>	-15	(10.2)
<i>Almaty region</i>	412	(4.6)	412	(4.7)	415	(8.1)	412	(14.5)	418	(8.8)	3	(7.8)
<i>Astana</i>	449	(7.3)	450	(7.6)	452	(13.3)	448	(16.1)	<i>c</i>	<i>c</i>	2	(11.9)
<i>Atyrau region</i>	405	(6.0)	405	(5.9)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>
<i>East-Kazakhstan region</i>	432	(7.3)	433	(7.4)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>
<i>Karagandy region</i>	421	(4.3)	423	(4.4)	413	(10.5)	412	(10.2)	<i>c</i>	<i>c</i>	-10	(10.5)
<i>Kostanay region</i>	440	(8.3)	442	(8.8)	421	(13.6)	428	(17.5)	411	(17.7)	-21	(15.7)
<i>Kyzyl-Orda region</i>	414	(4.7)	414	(4.7)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>m</i>	<i>m</i>	<i>c</i>	<i>c</i>
<i>North-Kazakhstan region</i>	441	(5.2)	442	(5.1)	436	(14.7)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	-6	(13.4)
<i>Pavlodar region</i>	426	(4.9)	427	(5.0)	410	(12.2)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	-18	(11.4)
<i>Shymkent</i>	407	(4.8)	407	(5.2)	404	(8.1)	<i>c</i>	<i>c</i>	413	(12.8)	-3	(10.0)
<i>Turkestan region</i>	389	(7.1)	390	(7.1)	384	(11.8)	363	(13.9)	<i>c</i>	<i>c</i>	-7	(10.2)
<i>West-Kazakhstan region</i>	424	(4.0)	424	(3.9)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>
<i>Zhambyl region</i>	433	(5.6)	433	(5.7)	437	(11.6)	436	(12.0)	438	(14.3)	3	(11.0)
Mongolia												
<i>Central</i>	443	(3.3)	444	(3.2)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>
<i>Khangai</i>	409	(6.0)	411	(6.0)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>
<i>Western</i>	381	(4.9)	387	(4.2)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>
Viet Nam												
<i>Central</i>	461	(6.3)	463	(6.2)	<i>c</i>	<i>c</i>	<i>m</i>	<i>m</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>
<i>Northern</i>	480	(6.7)	482	(6.4)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>
<i>Southern</i>	463	(6.8)	464	(6.7)	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>m</i>	<i>m</i>	<i>c</i>	<i>c</i>

* Caution is required when interpreting estimates because one or more PISA sampling standards were not met (see Reader's Guide, Annexes A2 and A4).

Notes: Values that are statistically significant are indicated in bold (see Annex A3).

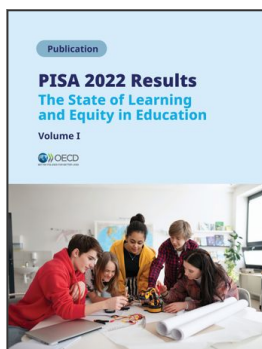
PISA adjudicated region is shown in bold.

See Table I.B1.7.17 for national data.

Table I.B2.45. Results for regions within countries Annex B2 tables

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