Results for regions within countries

Table V.B2.2.9 [1/4] **Grade repetition**
Results based on students' reports

	Percentage of students who had repeated a grade in:																	
	PISA 2018																	
	Primary school									Lower secondary school								
	Never			Once			Twice or more			Never			Once			Twice or more		
	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x
Belgium																		
Flemish community*	83.2	(0.8)		15.7	(0.7)		1.2	(0.1)		95.4	(0.5)		4.3	(0.5)		0.3	(0.1)	
French community	80.9	(0.7)		15.9	(0.8)		3.2	(0.3)		79.8	(0.8)		19.1	(0.8)		1.1	(0.2)	
German-speaking community	87.0	(1.2)		10.7	(1.3)		2.4	(0.5)		87.4	(1.5)		11.7	(1.5)		0.9	(0.5)	
Canada																		
Alberta	96.4	(0.6)		3.5	(0.6)		0.1	(0.1)		99.4	(0.2)		0.5	(0.2)		0.1	(0.1)	
British Columbia	98.3	(0.3)		1.4	(0.3)		0.3	(0.1)		98.0	(0.3)		1.6	(0.3)		0.5	(0.2)	
Manitoba	97.6	(0.5)		2.2	(0.5)		0.3	(0.1)		98.0	(0.3)		1.5	(0.3)		0.5	(0.2)	
New Brunswick	95.5	(0.5)		4.2	(0.5)		0.3	(0.1)		97.5	(0.6)		2.2	(0.5)		0.4	(0.3)	
Newfoundland and Labrador	99.2	(0.2)		0.6	(0.2)		0.2	(0.1)		99.7	(0.2)		0.2	(0.1)		0.2	(0.1)	
Nova Scotia	99.5	(0.2)		0.4	(0.2)		0.1	(0.1)		99.5	(0.2)		0.4	(0.1)		0.1	(0.1)	
Ontario	98.7	(0.2)		1.1	(0.2)		0.2	(0.1)		98.9	(0.2)		0.7	(0.2)		0.3	(0.1)	
Prince Edward Island	97.9	(1.7)		2.1	(1.7)		0.0	c		99.6	(0.2)		0.2	(0.2)		0.1	(0.1)	
Quebec	91.2	(0.7)		8.2	(0.7)		0.6	(0.2)		92.4	(0.6)		7.1	(0.5)		0.5	(0.1)	
Saskatchewan	96.4	(0.7)		3.3	(0.6)		0.3	(0.2)		98.9	(0.3)		1.0	(0.3)		0.1	(0.1)	
Colombia																		
Bogotá	84.0	(1.2)		13.0	(1.2)		3.0	(0.5)		72.3	(1.5)		20.8	(1.2)		6.9	(0.6)	
Italy																		
Bolzano	98.6	(0.3)		1.2	(0.3)		0.2	(0.1)		95.8	(0.7)		3.8	(0.6)		0.5	(0.2)	
Sardegna	98.4	(0.4)		1.2	(0.3)		0.4	(0.1)		90.4	(1.2)		8.3	(0.9)		1.3	(0.6)	
Toscana	99.0	(0.3)		0.9	(0.3)		0.0	(0.0)		95.0	(0.6)		4.7	(0.6)		0.3	(0.2)	
Trento	98.3	(0.4)		1.6	(0.4)		0.1	(0.1)		95.5	(0.7)		4.3	(0.6)		0.2	(0.1)	
Spain																		
Andalusia	88.2	(1.2)		11.2	(1.1)		0.6	(0.2)		72.3	(1.4)		25.0	(1.2)		2.7	(0.5)	
Aragon	87.1	(0.9)		12.5	(0.8)		0.4	(0.1)		77.2	(1.7)		21.4	(1.6)		1.4	(0.4)	
Asturias	89.4	(0.9)		10.3	(0.9)		0.3	(0.2)		80.2	(1.3)		19.0	(1.2)		0.8	(0.3)	
Balearic Islands	86.6	(1.1)		12.8	(1.1)		0.6	(0.2)		76.8	(1.9)		21.3	(1.7)		1.8	(0.5)	
Basque Country	90.5	(0.7)		9.2	(0.7)		0.3	(0.1)		85.6	(0.9)		13.4	(0.9)		1.0	(0.2)	
Canary Islands	83.3	(1.2)		16.3	(1.2)		0.3	(0.2)		73.3	(1.2)		25.6	(1.1)		1.1	(0.3)	
Cantabria	90.5	(1.0)		9.5	(1.0)		0.1	(0.1)		79.1	(1.3)		20.3	(1.2)		0.6	(0.2)	
Castile and Leon	87.1	(1.3)		12.4	(1.2)		0.5	(0.2)		76.6	(1.4)		21.9	(1.3)		1.5	(0.4)	
Castile-La Mancha	85.7	(1.2)		13.7	(1.1)		0.6	(0.2)		73.1	(1.6)		24.4	(1.5)		2.5	(0.5)	
Catalonia	94.3	(0.7)		5.4	(0.7)		0.3	(0.2)		89.5	(1.2)		9.9	(1.2)		0.6	(0.2)	
Ceuta	77.7	(2.5)		21.9	(2.5)		0.5	(0.3)		55.9	(2.4)		38.9	(2.4)		5.1	(1.4)	
Comunidad Valenciana	88.5	(1.0)		10.9	(0.9)		0.6	(0.3)		73.1	(1.5)		24.6	(1.4)		2.3	(0.4)	
Extremadura	89.0	(1.3)		10.6	(1.2)		0.4	(0.2)		70.9	(1.5)		27.5	(1.3)		1.6	(0.3)	
Galicia	89.5	(1.0)		9.9	(1.0)		0.6	(0.2)		77.0	(1.5)		20.8	(1.2)		2.1	(0.5)	
La Rioja	90.5	(0.7)		9.0	(0.7)		0.4	(0.2)		70.4	(0.7)		27.9	(0.8)		1.7	(0.4)	
Madrid	86.4	(0.7)		13.2	(0.7)		0.4	(0.1)		77.0	(1.3)		21.5	(1.2)		1.5	(0.2)	
Melilla	84.5	(2.2)		14.6	(2.2)		0.9	(0.6)		58.0	(2.1)		37.4	(2.0)		4.6	(1.5)	
Murcia	83.9	(1.6)		15.6	(1.5)		0.5	(0.2)		72.7	(1.9)		26.3	(1.8)		1.1	(0.3)	
Navarre	90.5	(0.8)		9.3	(0.8)		0.2	(0.1)		81.9	(1.3)		16.9	(1.2)		1.2	(0.3)	
United Kingdom																		
England	98.2	(0.2)		1.5	(0.2)		0.3	(0.1)		99.2	(0.1)		0.7	(0.1)		0.1	(0.0)	
Northern Ireland	98.7	(0.3)		1.2	(0.3)		0.2	(0.1)		99.2	(0.2)		0.5	(0.2)		0.3	(0.1)	
Scotland*	98.0	(0.3)		1.8	(0.3)		0.1	(0.1)		99.1	(0.2)		0.8	(0.2)		0.2	(0.1)	
Wales	97.2	(0.3)		2.4	(0.3)		0.3	(0.1)		99.3	(0.1)		0.3	(0.1)		0.3	(0.1)	

* PISA adjudicated region.

Note: see Table V.B1.2.9 for national data.

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Table V.B2.2.9 [2/4] **Grade repetition**
Results based on students' reports

		Percentage of students who had repeated a grade in:																
		PISA 2018																
		Primary school									Lower secondary school								
		Never			Once			Twice or more			Never			Once			Twice or more		
		%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x
Partners	**Argentina**																		
	CABA*	92.8	(0.8)		6.4	(0.7)		0.8	(0.2)		85.4	(1.2)		13.7	(1.1)		0.9	(0.3)	
	Cordoba*	89.3	(1.1)		8.8	(0.9)		2.0	(0.4)		83.1	(1.3)		14.2	(1.1)		2.7	(0.5)	
	PBA*	86.7	(1.3)		11.2	(1.0)		2.1	(0.5)		76.9	(2.1)		17.3	(1.6)		5.8	(0.8)	
	Tucuman*	91.4	(0.8)		7.1	(0.7)		1.5	(0.3)		78.0	(1.7)		17.0	(1.5)		5.0	(0.5)	
	Brazil																		
	North	73.4	(2.6)		18.5	(1.9)		8.2	(1.3)		75.0	(2.8)		17.4	(2.0)		7.5	(1.4)	
	Northeast	76.0	(1.5)		16.9	(1.1)		7.1	(0.7)		73.9	(1.4)		17.5	(1.0)		8.6	(0.7)	
	South	84.6	(1.9)		12.2	(1.4)		3.2	(0.8)		77.9	(2.3)		14.8	(1.6)		7.3	(1.0)	
	Southeast	87.5	(0.8)		9.6	(0.7)		2.9	(0.4)		82.4	(1.1)		12.3	(0.9)		5.2	(0.5)	
	Middle-West	84.1	(2.4)		12.3	(1.9)		3.5	(1.1)		81.0	(3.2)		14.8	(2.4)		4.2	(1.3)	
	Indonesia																		
	DI Yogyakarta	87.6	(1.7)		10.5	(1.4)		1.8	(0.4)		97.9	(0.3)		1.9	(0.3)		0.2	(0.1)	
	DKI Jakarta	92.1	(1.3)		7.2	(1.2)		0.7	(0.2)		96.8	(0.5)		2.8	(0.5)		0.4	(0.2)	
	Kazakhstan																		
	Akmola region	95.1	(0.8)		4.3	(0.7)		0.6	(0.2)		97.4	(0.7)		1.9	(0.7)		0.6	(0.2)	
	Aktobe region	98.3	(0.3)		1.5	(0.4)		0.2	(0.1)		98.2	(0.4)		1.0	(0.3)		0.8	(0.3)	
	Almaty	99.2	(0.3)		0.7	(0.2)		0.1	(0.1)		99.2	(0.3)		0.6	(0.3)		0.2	(0.1)	
	Almaty region	97.6	(0.4)		1.9	(0.4)		0.5	(0.2)		97.8	(0.5)		1.6	(0.3)		0.6	(0.2)	
	Astana	98.2	(0.2)		1.6	(0.2)		0.2	(0.1)		99.1	(0.2)		0.4	(0.1)		0.5	(0.2)	
	Atyrau region	98.0	(0.3)		1.7	(0.2)		0.4	(0.2)		98.2	(0.5)		1.4	(0.4)		0.4	(0.2)	
	East-Kazakhstan region	96.7	(0.8)		3.0	(0.7)		0.3	(0.2)		98.7	(0.5)		1.0	(0.4)		0.4	(0.2)	
	Karagandy region	97.8	(0.6)		2.2	(0.6)		0.0	(0.0)		99.2	(0.3)		0.8	(0.3)		0.0	(0.0)	
	Kostanay region	98.6	(0.5)		1.2	(0.4)		0.2	(0.1)		99.3	(0.3)		0.6	(0.3)		0.1	(0.1)	
	Kyzyl-Orda region	98.2	(0.6)		1.7	(0.6)		0.2	(0.1)		98.4	(0.3)		1.1	(0.2)		0.5	(0.2)	
	Mangistau region	97.5	(0.8)		2.2	(0.7)		0.3	(0.2)		97.7	(0.5)		1.9	(0.5)		0.4	(0.2)	
	North-Kazakhstan region	95.3	(0.7)		3.9	(0.6)		0.7	(0.4)		98.1	(0.5)		1.6	(0.4)		0.3	(0.2)	
	Pavlodar region	98.7	(0.4)		1.2	(0.4)		0.1	(0.1)		99.4	(0.2)		0.5	(0.2)		0.2	(0.1)	
	South-Kazakhstan region	95.2	(0.7)		4.1	(0.6)		0.6	(0.2)		96.4	(0.7)		2.9	(0.5)		0.8	(0.3)	
	West-Kazakhstan region	97.1	(0.7)		2.4	(0.5)		0.5	(0.4)		98.1	(0.6)		1.0	(0.4)		0.9	(0.4)	
	Zhambyl region	99.2	(0.3)		0.8	(0.3)		0.0	c		99.5	(0.2)		0.4	(0.2)		0.1	(0.1)	
	Russia																		
	Moscow city	99.2	(0.1)		0.5	(0.1)		0.3	(0.1)		99.0	(0.2)		0.7	(0.1)		0.3	(0.1)	
	Moscow region*	99.3	(0.2)		0.4	(0.2)		0.3	(0.1)		99.1	(0.2)		0.9	(0.2)		0.0	(0.0)	
	Republic of Tatarstan*	99.0	(0.2)		0.7	(0.1)		0.3	(0.1)		99.2	(0.1)		0.5	(0.1)		0.3	(0.1)	

* PISA adjudicated region.

Note: see Table V.B1.2.9 for national data.

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Table V.B2.2.9 [3/4] **Grade repetition**
Results based on students' reports

	Percentage of students who had repeated a grade in:								
	PISA 2018								
	Upper secondary school							At least once in primary, lower secondary or upper secondary school	
	Never			Once			Twice or more			
	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x
Belgium												
Flemish community*	95.9	(0.3)		4.0	(0.3)		0.1	(0.0)		76.8	(1.0)	
French community	87.2	(0.8)		12.7	(0.7)		0.2	(0.1)		58.9	(0.9)	
German-speaking community	94.1	(1.2)		5.9	(1.2)		0.0	c		71.6	(1.3)	
Canada												
Alberta	99.6	(0.2)		0.4	(0.1)		0.1	(0.1)		95.9	(0.6)	
British Columbia	98.9	(0.2)		0.8	(0.2)		0.4	(0.1)		96.4	(0.4)	
Manitoba	98.6	(0.3)		1.0	(0.3)		0.4	(0.1)		95.1	(0.7)	
New Brunswick	99.3	(0.2)		0.4	(0.2)		0.3	(0.1)		92.8	(0.8)	
Newfoundland and Labrador	99.6	(0.2)		0.2	(0.2)		0.2	(0.1)		98.8	(0.3)	
Nova Scotia	100.0	(0.0)		0.0	(0.0)		0.0	(0.0)		99.1	(0.2)	
Ontario	99.2	(0.2)		0.4	(0.1)		0.4	(0.1)		97.9	(0.3)	
Prince Edward Island	99.1	(0.6)		0.9	(0.6)		0.0	c		96.9	(1.3)	
Quebec	99.7	(0.1)		0.3	(0.1)		0.0	(0.0)		85.4	(1.0)	
Saskatchewan	99.4	(0.2)		0.5	(0.1)		0.1	(0.1)		95.1	(0.8)	
Colombia												
Bogotá	98.7	(0.3)		1.3	(0.3)		0.0	c		63.5	(1.4)	
Italy												
Bolzano	86.0	(0.9)		13.5	(0.8)		0.5	(0.2)		81.7	(0.9)	
Sardegna	87.3	(1.1)		12.0	(1.1)		0.7	(0.2)		79.3	(1.5)	
Toscana	90.1	(1.0)		9.7	(1.0)		0.1	(0.1)		85.2	(1.1)	
Trento	90.4	(0.8)		9.6	(0.8)		0.1	(0.1)		85.3	(0.9)	
Spain												
Andalusia	m	m		m	m		m	m		66.7	(1.7)	
Aragon	m	m		m	m		m	m		69.6	(1.7)	
Asturias	m	m		m	m		m	m		73.3	(1.3)	
Balearic Islands	m	m		m	m		m	m		68.3	(1.9)	
Basque Country	m	m		m	m		m	m		80.0	(1.0)	
Canary Islands	m	m		m	m		m	m		64.4	(1.2)	
Cantabria	m	m		m	m		m	m		73.1	(1.4)	
Castile and Leon	m	m		m	m		m	m		70.5	(1.8)	
Castile-La Mancha	m	m		m	m		m	m		65.9	(1.8)	
Catalonia	m	m		m	m		m	m		84.9	(1.3)	
Ceuta	m	m		m	m		m	m		50.9	(2.3)	
Comunidad Valenciana	m	m		m	m		m	m		67.8	(1.8)	
Extremadura	m	m		m	m		m	m		65.3	(1.9)	
Galicia	m	m		m	m		m	m		72.5	(1.7)	
La Rioja	m	m		m	m		m	m		65.9	(0.7)	
Madrid	m	m		m	m		m	m		70.1	(1.3)	
Melilla	m	m		m	m		m	m		54.4	(1.8)	
Murcia	m	m		m	m		m	m		65.4	(1.8)	
Navarre	m	m		m	m		m	m		76.1	(1.5)	
United Kingdom												
England	99.3	(0.1)		0.5	(0.1)		0.1	(0.0)		97.5	(0.3)	
Northern Ireland	98.8	(0.2)		1.1	(0.2)		0.2	(0.1)		97.7	(0.3)	
Scotland*	99.2	(0.2)		0.6	(0.1)		0.2	(0.1)		97.1	(0.4)	
Wales	99.3	(0.2)		0.4	(0.1)		0.3	(0.1)		96.8	(0.4)	

* PISA adjudicated region.

Note: see Table V.B1.2.9 for national data.

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Table V.B2.2.9 [4/4] **Grade repetition**
Results based on students' reports

	Percentage of students who had repeated a grade in:										
	PISA 2018										
	Upper secondary school									At least once in primary, lower secondary or upper secondary school		
	Never			Once			Twice or more					
	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x
Argentina												
CABA*	99.1	(0.3)		0.5	(0.2)		0.4	(0.2)		81.7	(1.4)	
Cordoba*	98.7	(0.3)		1.1	(0.3)		0.2	(0.1)		77.4	(1.4)	
PBA*	98.4	(0.3)	†	1.4	(0.3)	†	0.2	(0.1)	†	71.9	(2.2)	
Tucuman*	97.0	(0.4)	†	2.4	(0.4)	†	0.6	(0.2)	†	75.4	(1.4)	
Brazil												
North	97.4	(0.8)	†	2.6	(0.8)	†	0.0	c	†	58.8	(3.5)	
Northeast	96.2	(0.4)	†	3.8	(0.4)	†	0.1	(0.0)	†	58.1	(1.7)	
South	96.8	(0.5)		3.1	(0.5)		0.1	(0.1)		66.9	(2.8)	
Southeast	94.6	(0.5)		5.1	(0.4)		0.4	(0.1)		71.6	(1.3)	
Middle-West	94.1	(1.6)		5.7	(1.5)		0.2	(0.2)		68.5	(3.5)	
Indonesia												
DI Yogyakarta	99.6	(0.2)		0.4	(0.2)		0.1	(0.1)		86.8	(1.7)	
DKI Jakarta	99.3	(0.2)		0.6	(0.2)		0.1	(0.1)		90.7	(1.3)	
Kazakhstan												
Akmola region	m	m		m	m		m	m		94.2	(0.9)	
Aktobe region	m	m		m	m		m	m		97.8	(0.4)	
Almaty	m	m		m	m		m	m		98.8	(0.4)	
Almaty region	m	m		m	m		m	m		96.9	(0.4)	
Astana	m	m		m	m		m	m		98.1	(0.2)	
Atyrau region	m	m		m	m		m	m		97.5	(0.5)	
East-Kazakhstan region	m	m		m	m		m	m		96.3	(0.8)	
Karagandy region	m	m		m	m		m	m		97.5	(0.6)	
Kostanay region	m	m		m	m		m	m		98.5	(0.5)	
Kyzyl-Orda region	m	m		m	m		m	m		97.6	(0.6)	
Mangistau region	m	m		m	m		m	m		96.7	(0.8)	
North-Kazakhstan region	m	m		m	m		m	m		94.7	(0.8)	
Pavlodar region	m	m		m	m		m	m		98.5	(0.5)	
South-Kazakhstan region	m	m		m	m		m	m		94.6	(0.7)	
West-Kazakhstan region	m	m		m	m		m	m		96.4	(0.8)	
Zhambyl region	m	m		m	m		m	m		99.1	(0.4)	
Russia												
Moscow city	m	m		m	m		m	m		98.6	(0.2)	
Moscow region*	m	m		m	m		m	m		98.6	(0.3)	
Republic of Tatarstan*	m	m		m	m		m	m		98.7	(0.2)	

* PISA adjudicated region.

Note: see Table V.B1.2.9 for national data.

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Table V.B2.5.15 [1/4] **School capacity to enhance teaching and learning using digital devices**
Results based on principals' reports

	The number of digital devices connected to the Internet is sufficient			The school's Internet bandwidth or speed is sufficient			The number of digital devices for instruction is sufficient			Digital devices at the school are sufficiently powerful in terms of computing capacity			The availability of adequate software is sufficient			Teachers have the necessary technical and pedagogical skills to integrate digital devices in instruction		
	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x
Belgium																		
*Flemish community**	86.8	(2.9)		90.3	(2.4)		85.8	(2.7)		85.3	(2.9)		95.6	(1.5)		71.3	(4.0)	
French community	36.2	(4.7)		41.0	(4.3)		32.9	(4.7)		53.6	(5.2)		47.5	(4.9)		33.3	(4.6)	
German-speaking community	100.0	(0.0)		72.1	(0.5)		81.3	(0.6)		75.0	(0.5)		84.6	(0.4)		55.7	(0.7)	
Canada																		
Alberta	87.7	(3.6)		84.7	(3.8)		88.1	(3.3)		89.1	(2.9)		94.4	(2.2)		86.3	(4.4)	
British Columbia	80.3	(4.2)		83.9	(3.8)		70.8	(5.2)		80.3	(4.1)		87.8	(4.2)		67.6	(6.1)	
Manitoba	85.2	(2.3)		89.5	(1.9)		75.3	(2.5)		86.4	(2.5)		89.8	(1.9)		70.4	(2.9)	
New Brunswick	51.4	(2.2)		88.9	(1.7)		57.4	(1.7)		70.8	(1.4)		65.4	(1.6)		60.8	(1.5)	
Newfoundland and Labrador	80.0	(2.5)		72.1	(3.1)		76.3	(2.6)		88.6	(2.2)		79.3	(2.1)		66.1	(2.9)	
Nova Scotia	81.5	(3.6)		78.4	(3.2)		69.1	(3.4)		82.9	(3.4)		75.5	(3.0)		75.5	(3.8)	
Ontario	86.1	(3.4)		82.7	(3.8)		73.9	(4.5)		87.4	(3.0)		88.0	(2.7)		70.2	(4.6)	
Prince Edward Island	61.6	(2.3)		32.6	(19.9)		62.5	(3.0)		66.4	(4.6)		59.8	(6.6)		38.8	(17.5)	
Quebec	71.8	(4.4)		77.7	(4.1)		73.3	(4.0)		78.2	(3.8)		84.8	(3.4)		57.9	(4.4)	
Saskatchewan	73.6	(2.9)		62.6	(3.7)		67.9	(3.3)		86.2	(2.7)		88.9	(2.1)		66.1	(3.1)	
Colombia																		
Bogotá	48.3	(6.7)		39.4	(6.5)		48.2	(6.2)		44.4	(5.9)		47.8	(5.3)		67.1	(7.0)	
Italy																		
Bolzano	61.4	(1.0)		42.6	(0.8)		54.5	(1.0)		50.2	(0.9)		80.3	(0.8)		72.0	(0.9)	
Sardegna	56.0	(5.4)		46.3	(5.1)		45.0	(5.1)		56.0	(4.5)		54.4	(4.9)		46.5	(4.5)	
Toscana	79.2	(5.2)		64.1	(5.9)		71.4	(6.3)		72.8	(5.1)		71.4	(5.7)		31.3	(5.2)	
Trento	85.9	(0.7)		83.7	(1.0)		91.2	(0.5)		95.1	(0.6)		95.2	(0.3)		44.8	(1.4)	
Spain																		
Andalusia	39.7	(7.1)		52.5	(7.7)		33.4	(6.2)		32.2	(5.6)		43.8	(6.5)		47.4	(7.7)	
Aragon	59.1	(7.6)		52.1	(7.4)		53.2	(7.9)		64.8	(7.0)		61.6	(5.7)		57.3	(6.9)	
Asturias	66.5	(5.4)		54.9	(7.1)		55.9	(6.6)		61.2	(6.4)		60.7	(6.8)		55.9	(6.0)	
Balearic Islands	31.5	(7.3)		44.9	(6.5)		20.8	(6.3)		29.1	(7.4)		60.6	(7.2)		51.3	(7.0)	
Basque Country	65.2	(5.4)		71.3	(4.6)		54.0	(5.9)		55.8	(4.9)		69.1	(4.8)		66.0	(5.4)	
Canary Islands	59.5	(6.2)		48.1	(6.6)		35.8	(5.7)		56.8	(6.5)		48.7	(6.8)		40.9	(6.6)	
Cantabria	58.9	(6.3)		68.7	(5.5)		45.8	(6.4)		62.0	(5.9)		63.1	(5.9)		53.5	(5.9)	
Castile and Leon	48.8	(6.5)		60.8	(6.5)		37.3	(6.4)		50.5	(5.7)		43.1	(6.0)		53.5	(6.6)	
Castile-La Mancha	42.4	(7.5)		47.9	(8.4)		22.0	(6.0)		28.8	(6.0)		40.3	(6.2)		49.3	(7.8)	
Catalonia	64.7	(6.6)		50.3	(6.2)		58.9	(6.6)		61.6	(6.2)		64.0	(7.6)		59.9	(6.5)	
Ceuta	86.7	(0.8)	†	86.6	(0.5)	†	19.0	(0.9)	†	19.0	(0.9)	†	53.5	(1.4)	†	45.3	(1.5)	†
Comunidad Valenciana	43.2	(7.1)		42.7	(5.3)		38.4	(7.8)		55.0	(6.9)		44.1	(5.9)		58.8	(7.9)	
Extremadura	63.2	(6.6)		55.4	(7.0)		46.6	(7.5)		47.8	(7.5)		58.7	(7.3)		50.2	(6.8)	
Galicia	56.0	(7.3)		59.2	(6.4)		46.3	(7.6)		51.2	(5.5)		67.3	(6.1)		48.4	(6.0)	
La Rioja	72.8	(0.4)		78.8	(0.4)		65.2	(0.4)		34.7	(0.4)		58.0	(0.4)		43.6	(0.4)	
Madrid	63.9	(4.4)		49.2	(3.9)		52.0	(4.5)		57.9	(4.4)		62.0	(4.9)		56.9	(4.3)	
Melilla	45.2	(1.6)		74.4	(1.2)		45.2	(1.6)		63.1	(1.6)		78.9	(1.2)		64.1	(1.5)	
Murcia	51.3	(6.5)		67.8	(7.2)		40.2	(5.9)		39.1	(6.1)		29.6	(6.4)		46.9	(7.6)	
Navarre	63.4	(5.6)		64.7	(4.5)		51.3	(5.7)		69.1	(4.1)		69.7	(5.9)		38.4	(5.8)	
United Kingdom																		
England	71.7	(4.4)		79.4	(3.2)		69.8	(3.7)		69.5	(3.8)		82.3	(3.0)		73.8	(3.9)	
Northern Ireland	58.7	(5.0)		68.5	(5.6)		42.9	(6.5)		54.3	(5.7)		71.2	(4.9)		63.0	(6.6)	
*Scotland**	57.4	(5.8)		47.9	(5.8)		58.3	(6.0)		56.1	(5.1)	†	74.5	(5.0)		68.7	(5.1)	
Wales	50.2	(4.6)		50.6	(4.5)		46.0	(4.5)		47.8	(4.6)		72.2	(4.5)		60.0	(4.4)	

* PISA adjudicated region.

Notes: see Table V.B1.5.15 for national data.

Information regarding the proportion of the sample covered is shown next to the standard error. No symbol means at least 75% of the population was covered; one dagger (†) means at least 50% but less than 75%; and one double-dagger (‡) means less than 50% was covered. For comparisons across cycles, the coverage information corresponds to the cycle with the lowest sample coverage.

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Table V.B2.5.15 [2/4] **School capacity to enhance teaching and learning using digital devices**
Results based on principals' reports

	Percentage of students in schools whose principal agreed or strongly agreed with the following statements:																
	The number of digital devices connected to the Internet is sufficient			The school's Internet bandwidth or speed is sufficient			The number of digital devices for instruction is sufficient			Digital devices at the school are sufficiently powerful in terms of computing capacity			The availability of adequate software is sufficient			Teachers have the necessary technical and pedagogical skills to integrate digital devices in instruction		
	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x
Argentina																		
CABA*	43.5	(5.7)		32.4	(5.3)		34.8	(5.7)		48.5	(5.2)		57.4	(6.0)		47.7	(5.4)	
Cordoba*	31.9	(5.2)		29.1	(5.1)		23.2	(4.6)		32.5	(5.0)		33.4	(4.8)		44.0	(5.0)	
PBA*	31.4	(4.7)		26.4	(4.8)		32.1	(5.9)		31.4	(5.1)		33.6	(5.1)		40.2	(5.7)	
Tucuman*	24.9	(5.3)		17.1	(4.0)		20.4	(4.7)		30.2	(5.0)		26.8	(4.5)		55.0	(5.2)	
Brazil																		
North	19.6	(7.1)		19.5	(7.1)		10.1	(4.7)		16.4	(6.6)		10.2	(4.6)		58.3	(9.0)	
Northeast	19.8	(2.8)		16.4	(2.9)		18.6	(2.7)		20.9	(3.3)		21.0	(3.2)		61.4	(3.9)	
South	35.9	(5.5)		35.4	(5.4)		33.7	(5.8)		37.1	(5.4)		32.5	(5.7)		43.7	(7.1)	
Southeast	31.9	(2.8)		32.5	(2.5)		25.5	(3.4)		30.8	(3.7)		28.6	(3.2)		42.7	(3.7)	
Middle-West	24.6	(6.5)		15.4	(4.2)		21.2	(5.5)		27.2	(3.8)		18.7	(4.7)		60.4	(8.8)	
Indonesia																		
DI Yogyakarta	87.9	(5.3)		79.4	(6.4)		70.5	(7.4)		82.0	(6.6)		77.0	(6.4)		91.7	(4.1)	
DKI Jakarta	83.9	(5.2)		84.5	(5.8)		83.3	(5.8)		84.9	(5.6)		81.3	(6.3)		84.3	(5.6)	
Kazakhstan																		
Akmola region	43.0	(7.9)		54.5	(7.4)		43.9	(9.0)		27.8	(7.8)		53.2	(8.8)		95.7	(3.4)	
Aktobe region	44.0	(7.5)		41.3	(6.5)		39.4	(7.8)		35.9	(6.8)		60.0	(7.6)		78.9	(6.4)	
Almaty	68.6	(7.4)		68.4	(9.4)		64.5	(8.0)		64.2	(9.9)		80.4	(8.4)		77.9	(8.6)	
Almaty region	67.7	(10.0)		55.0	(7.6)		56.5	(9.6)		49.2	(7.7)		71.1	(7.0)		91.3	(5.0)	
Astana	62.4	(9.1)		70.3	(8.2)		48.1	(6.7)		46.4	(9.6)		63.8	(7.7)		92.4	(5.4)	
Atyrau region	61.3	(9.1)		51.4	(10.1)		61.3	(10.4)		53.4	(9.9)		72.3	(5.9)		90.8	(5.0)	
East-Kazakhstan region	62.6	(7.4)		64.5	(7.4)		44.1	(8.3)		36.7	(8.0)		66.9	(8.2)		90.2	(4.8)	
Karagandy region	84.3	(6.8)		82.2	(5.9)		73.4	(6.0)		68.9	(8.5)		91.2	(5.2)		95.6	(3.1)	
Kostanay region	53.2	(8.6)		61.3	(6.4)		42.3	(7.8)		36.2	(8.6)		53.4	(7.8)		83.1	(5.7)	
Kyzyl-Orda region	65.5	(7.4)		66.1	(8.8)		56.3	(8.2)		57.1	(8.7)		56.4	(9.4)		86.8	(6.1)	
Mangistau region	78.3	(8.9)		79.1	(9.5)		58.5	(8.3)		49.4	(13.2)		84.7	(7.6)		92.1	(5.6)	
North-Kazakhstan region	67.2	(7.3)		73.3	(7.0)		57.7	(6.5)		49.4	(7.5)		72.7	(6.5)		86.0	(5.7)	
Pavlodar region	77.4	(6.5)		76.8	(5.5)		53.8	(9.7)		65.5	(8.0)		84.0	(7.0)		93.3	(4.4)	
South-Kazakhstan region	51.0	(8.2)		58.9	(7.1)		56.7	(10.0)		59.9	(10.3)		72.6	(8.8)		93.4	(4.5)	
West-Kazakhstan region	58.1	(6.4)		71.4	(5.1)		66.3	(6.5)		50.5	(8.7)		87.5	(4.9)		96.6	(3.1)	
Zhambyl region	76.0	(8.8)		72.5	(7.6)		70.3	(7.6)		55.3	(7.4)		89.5	(5.6)		95.1	(2.8)	
Russia																		
Moscow city	88.5	(2.6)		94.1	(2.0)		77.3	(3.5)		76.8	(3.4)		89.5	(2.3)		92.8	(2.2)	
Moscow region*	83.0	(4.0)		91.8	(2.4)		62.4	(6.4)		53.8	(6.3)		71.0	(6.1)		97.4	(1.9)	
Republic of Tatarstan*	78.0	(3.0)		75.0	(3.0)		54.6	(3.5)		35.1	(3.6)		55.0	(3.8)		84.8	(2.8)	

* PISA adjudicated region.

Notes: see Table V.B1.5.15 for national data.

Information regarding the proportion of the sample covered is shown next to the standard error. No symbol means at least 75% of the population was covered; one dagger (†) means at least 50% but less than 75%; and one double-dagger (‡) means less than 50% was covered. For comparisons across cycles, the coverage information corresponds to the cycle with the lowest sample coverage.

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Table V.B2.5.15 [3/4] **School capacity to enhance teaching and learning using digital devices**
Results based on principals' reports

| | Percentage of students in schools whose principal agreed or strongly agreed with the following statements: | | | | | | | | | | | | | | |
| | Teachers have sufficient time to prepare lessons integrating digital devices | | | Effective professional resources for teachers to learn how to use digital devices are available | | | An effective online learning support platform is available | | | Teachers are provided with incentives to integrate digital devices in their teaching | | | The school has sufficient qualified technical assistant staff | | |
	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x
Belgium															
*Flemish community**	82.0	(3.2)		74.0	(3.6)		69.9	(3.6)		60.8	(4.2)		79.2	(2.9)	
French community	55.8	(5.6)		53.6	(5.1)		16.4	(3.9)		57.5	(5.4)		20.8	(4.7)	
German-speaking community	68.9	(0.7)		84.6	(0.4)		0.0	c		93.3	(0.6)		55.7	(0.7)	
Canada															
Alberta	66.9	(5.9)		80.0	(4.1)		79.6	(4.6)		23.3	(4.9)		85.1	(3.6)	
British Columbia	59.6	(5.6)		73.7	(5.3)		63.7	(5.0)		27.9	(4.9)		57.8	(6.3)	
Manitoba	75.9	(2.7)		72.2	(2.9)		57.3	(3.2)		32.7	(2.6)		76.2	(2.3)	
New Brunswick	51.8	(2.0)		52.5	(1.9)		40.0	(1.9)		25.1	(1.1)		31.5	(1.8)	
Newfoundland and Labrador	45.5	(2.7)		51.9	(3.4)		52.8	(3.2)		12.1	(2.9)		36.4	(3.4)	
Nova Scotia	33.5	(3.5)		56.7	(4.6)		52.8	(3.7)		10.3	(1.8)		49.6	(3.1)	
Ontario	76.5	(4.1)		84.2	(3.7)		79.5	(3.4)		29.7	(4.7)		57.1	(5.5)	
Prince Edward Island	55.3	(18.4)		17.1	(14.5)		1.7	(1.7)		23.0	(11.5)		35.3	(3.6)	
Quebec	66.7	(4.3)		75.9	(3.9)		35.3	(4.3)		65.0	(4.2)		65.4	(4.2)	
Saskatchewan	54.1	(3.6)		66.9	(3.4)		61.6	(3.8)		12.9	(1.9)		54.5	(2.4)	
Colombia															
Bogotá	66.6	(6.9)		63.4	(6.6)		48.4	(5.8)		27.6	(6.1)		37.4	(5.0)	
Italy															
Bolzano	71.8	(0.7)		61.6	(0.9)		52.4	(0.8)		53.8	(0.9)		61.1	(0.8)	
Sardegna	59.6	(5.7)		68.2	(4.5)		30.1	(4.6)		58.4	(4.3)		45.8	(5.2)	
Toscana	58.5	(6.1)		60.7	(6.3)		49.1	(6.2)		32.9	(5.6)		46.8	(6.5)	
Trento	74.7	(1.0)		78.0	(1.2)		67.1	(1.9)		25.8	(1.8)		75.9	(1.3)	
Spain															
Andalusia	32.6	(6.6)		45.0	(7.8)		41.1	(8.3)		4.5	(3.3)		30.4	(6.1)	
Aragon	31.1	(6.6)		66.5	(6.7)		35.1	(6.3)		8.3	(4.2)		47.4	(8.1)	
Asturias	25.7	(4.8)		63.3	(6.7)		37.6	(7.5)		12.1	(4.1)		47.3	(6.7)	
Balearic Islands	34.7	(7.3)		67.4	(6.3)		70.1	(6.4)		13.8	(4.2)		39.6	(6.3)	
Basque Country	52.2	(4.8)		68.2	(5.1)		61.6	(4.9)		20.8	(4.4)		60.0	(4.3)	
Canary Islands	28.2	(6.1)		46.5	(6.9)		66.7	(6.9)		10.5	(3.9)		41.5	(7.3)	
Cantabria	36.9	(6.9)		64.0	(6.4)		42.3	(7.0)		5.8	(3.4)		43.1	(5.8)	
Castile and Leon	31.7	(6.3)		55.0	(6.5)		70.7	(6.5)		9.4	(4.3)		34.9	(5.7)	
Castile-La Mancha	23.6	(4.9)		31.8	(5.8)		48.9	(7.0)		7.5	(3.8)		31.7	(6.2)	
Catalonia	34.4	(6.4)		56.8	(4.9)		62.9	(8.2)		20.8	(4.7)		34.9	(6.5)	
Ceuta	19.7	(0.8)	†	52.8	(1.3)	†	68.4	(1.3)	†	5.8	(0.3)	†	19.7	(0.8)	†
Comunidad Valenciana	27.7	(7.2)		51.7	(7.0)		40.2	(7.3)		15.2	(5.3)		40.4	(6.2)	
Extremadura	16.0	(5.5)		51.8	(7.9)		39.9	(7.0)		13.5	(4.4)		60.9	(5.9)	
Galicia	55.5	(6.4)		67.3	(6.1)		54.1	(7.0)		11.5	(4.4)		44.1	(7.0)	
La Rioja	37.7	(0.4)		43.4	(0.5)		54.2	(0.4)		8.1	(0.2)		51.2	(0.4)	
Madrid	35.3	(3.3)		69.7	(3.9)		51.1	(4.8)		10.8	(2.8)		38.1	(4.6)	
Melilla	35.9	(1.7)		64.1	(1.5)		49.9	(1.6)		0.0	c		29.2	(2.0)	
Murcia	23.1	(6.1)		52.9	(5.5)		59.0	(8.2)		2.3	(2.2)		33.3	(6.1)	
Navarre	26.6	(4.6)		50.7	(4.6)		44.2	(5.2)		13.7	(3.4)		41.3	(4.9)	
United Kingdom															
England	64.4	(4.7)		63.4	(4.1)		66.6	(4.5)		25.5	(4.0)		71.0	(3.9)	
Northern Ireland	50.4	(6.5)		70.3	(5.0)		58.9	(5.6)		32.5	(5.1)		67.8	(5.1)	
*Scotland**	62.6	(5.4)		74.7	(5.3)		67.3	(5.6)	†	24.2	(4.5)	†	54.3	(5.5)	
Wales	49.3	(4.2)		64.1	(4.7)		58.9	(4.6)		32.9	(4.0)		63.0	(5.1)	

* PISA adjudicated region.

Notes: see Table V.B1.5.15 for national data.

Information regarding the proportion of the sample covered is shown next to the standard error. No symbol means at least 75% of the population was covered; one dagger (†) means at least 50% but less than 75%; and one double-dagger (‡) means less than 50% was covered. For comparisons across cycles, the coverage information corresponds to the cycle with the lowest sample coverage.

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Table V.B2.5.15 [4/4] **School capacity to enhance teaching and learning using digital devices**
Results based on principals' reports

	Percentage of students in schools whose principal agreed or strongly agreed with the following statements:														
	Teachers have sufficient time to prepare lessons integrating digital devices			Effective professional resources for teachers to learn how to use digital devices are available			An effective online learning support platform is available			Teachers are provided with incentives to integrate digital devices in their teaching			The school has sufficient qualified technical assistant staff		
	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x
Partners **Argentina**															
*CABA**	26.4	(5.2)		47.5	(5.9)		31.9	(4.8)		26.6	(4.2)		46.0	(5.9)	
*Cordoba**	52.3	(5.5)		56.9	(6.2)		19.0	(4.0)		32.6	(5.7)		24.3	(4.8)	
*PBA**	36.6	(5.9)		47.0	(6.6)		18.0	(4.1)		25.8	(5.2)		31.1	(5.8)	
*Tucuman**	56.3	(5.8)		63.3	(5.0)		24.4	(4.8)		32.0	(5.3)		35.5	(5.6)	
Brazil															
North	56.3	(8.4)		27.9	(6.8)		30.1	(8.2)		59.0	(8.1)		16.1	(6.0)	
Northeast	63.4	(3.5)		44.6	(4.0)		29.0	(3.7)		54.1	(4.4)		18.8	(3.1)	
South	46.7	(7.6)		45.9	(6.5)		29.5	(4.3)		50.2	(5.8)		26.1	(5.1)	
Southeast	41.6	(3.3)		42.2	(3.8)		43.2	(3.9)		59.1	(3.7)		19.9	(3.4)	
Middle-West	75.1	(6.9)		45.0	(8.8)		28.3	(7.5)		52.4	(8.7)		19.9	(5.8)	
Indonesia															
DI Yogyakarta	77.5	(6.6)		68.3	(7.9)		68.9	(6.3)		42.1	(6.6)		78.2	(4.9)	
DKI Jakarta	80.1	(5.8)		70.3	(7.2)		63.6	(7.8)		40.8	(8.4)		72.6	(6.7)	
Kazakhstan															
Akmola region	67.4	(7.1)		59.4	(6.6)		56.2	(8.9)		90.4	(5.4)		63.4	(7.4)	
Aktobe region	72.9	(9.0)		63.9	(8.1)		51.9	(9.0)		83.4	(7.0)		65.8	(5.6)	
Almaty	72.5	(8.5)		76.7	(9.2)		68.5	(10.0)		88.0	(6.6)		78.7	(8.7)	
Almaty region	89.0	(6.3)		79.4	(6.5)		76.0	(5.1)		94.5	(4.0)		81.6	(7.1)	
Astana	62.6	(8.7)		73.3	(8.7)		63.3	(9.9)		81.9	(8.1)		89.3	(3.5)	
Atyrau region	83.3	(6.8)		82.3	(8.5)		83.6	(8.3)		93.1	(4.7)		90.5	(2.1)	
East-Kazakhstan region	79.2	(7.8)		76.4	(6.1)		77.9	(6.7)		93.2	(3.9)		79.6	(5.8)	
Karagandy region	81.9	(5.9)		87.4	(5.9)		74.6	(8.6)		90.6	(5.0)		76.2	(8.7)	
Kostanay region	79.1	(6.5)		72.2	(8.5)		62.2	(8.4)		81.8	(6.8)		62.1	(7.6)	
Kyzyl-Orda region	88.5	(4.3)		76.8	(7.5)		60.7	(6.1)		91.3	(5.1)		91.7	(4.3)	
Mangistau region	88.1	(6.8)		77.4	(7.4)		67.6	(10.4)		100.0	(0.0)		82.0	(8.2)	
North-Kazakhstan region	61.6	(7.8)		71.8	(7.3)		67.2	(6.0)		81.4	(5.7)		83.9	(5.1)	
Pavlodar region	67.8	(6.3)		69.4	(8.7)		84.0	(6.6)		85.5	(6.4)		76.1	(8.5)	
South-Kazakhstan region	88.6	(5.6)		85.3	(6.5)		66.9	(8.6)		92.7	(3.2)		88.9	(5.5)	
West-Kazakhstan region	87.3	(6.1)		74.9	(7.6)		69.3	(7.8)		92.7	(3.7)		88.0	(5.2)	
Zhambyl region	83.8	(4.8)		93.4	(0.3)		83.3	(6.6)		91.9	(4.4)		78.5	(7.0)	
Russia															
Moscow city	90.1	(2.4)		95.1	(1.7)		92.4	(2.2)		98.7	(0.9)		98.7	(0.9)	
*Moscow region**	74.6	(4.5)		86.3	(5.0)		54.0	(6.9)		88.9	(3.3)		90.7	(4.1)	
*Republic of Tatarstan**	75.8	(3.3)		78.0	(3.2)		41.2	(3.3)		81.2	(2.8)		76.2	(3.0)	

* PISA adjudicated region.

Notes: see Table V.B1.5.15 for national data.

Information regarding the proportion of the sample covered is shown next to the standard error. No symbol means at least 75% of the population was covered; one dagger (†) means at least 50% but less than 75%; and one double-dagger (‡) means less than 50% was covered. For comparisons across cycles, the coverage information corresponds to the cycle with the lowest sample coverage.

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Table V.B2.6.1 [1/2] **Average student learning time per week in regular school lessons, by subject**
Results based on students' reports; in hours

	Regular language-of-instruction lessons			Regular mathematics lessons			Regular science lessons			Foreign language lessons			Total learning time in regular lessons			Difference between language-of-instruction lessons and foreign language lessons		
	Hours	S.E.	x	Hours	S.E.	x	Hours	S.E.	x	Hours	S.E.	x	Hours	S.E.	x	Dif.	S.E.	x
Belgium																		
*Flemish community**	3.3	(0.0)		3.3	(0.0)		3.0	(0.1)		4.6	(0.1)		27.9	(0.1)		**-1.4**	(0.1)	
French community	4.0	(0.0)		3.7	(0.0)		3.2	(0.1)		4.9	(0.1)		27.6	(0.1)		**-0.8**	(0.1)	
German-speaking community	3.7	(0.1)		3.7	(0.1)		2.5	(0.1)		6.4	(0.1)		30.3	(0.2)		**-2.7**	(0.2)	
Canada																		
Alberta	5.4	(0.1)		5.7	(0.1)		5.6	(0.1)		2.4	(0.2)		29.7	(0.3)	†	**3.0**	(0.2)	
British Columbia	5.1	(0.2)		4.8	(0.2)		4.9	(0.2)		3.7	(0.1)		29.3	(0.3)	†	**1.4**	(0.1)	
Manitoba	4.7	(0.1)		4.6	(0.1)		4.4	(0.1)		1.9	(0.1)		28.0	(0.3)	†	**2.8**	(0.2)	
New Brunswick	5.4	(0.1)		5.2	(0.1)		4.2	(0.1)		3.6	(0.1)		26.8	(0.2)	†	**1.8**	(0.1)	
Newfoundland and Labrador	4.5	(0.1)		4.6	(0.1)		4.9	(0.1)		2.7	(0.1)	†	26.2	(0.2)	†	**1.8**	(0.1)	†
Nova Scotia	5.0	(0.1)		6.0	(0.1)		4.8	(0.1)		2.7	(0.1)		27.5	(0.2)	†	**2.3**	(0.2)	
Ontario	5.5	(0.1)		5.1	(0.1)		5.1	(0.1)		3.0	(0.1)		28.1	(0.2)	†	**2.5**	(0.1)	
Prince Edward Island	5.2	(0.4)		5.1	(0.2)		4.8	(0.3)		3.3	(0.3)		27.3	(0.3)		**1.9**	(0.3)	
Quebec	5.7	(0.1)		5.3	(0.0)		5.3	(0.1)		3.1	(0.1)		27.3	(0.2)	†	**2.6**	(0.1)	
Saskatchewan	4.9	(0.1)		4.7	(0.1)		3.9	(0.1)		1.3	(0.1)		26.7	(0.2)	†	**3.6**	(0.1)	
Colombia																		
Bogotá	4.0	(0.1)		4.4	(0.2)		3.8	(0.2)		4.1	(0.2)		27.1	(0.6)	†	-0.1	(0.2)	
Italy																		
Bolzano	3.5	(0.0)	†	3.1	(0.0)	†	2.6	(0.0)	†	5.2	(0.1)	†	30.8	(0.2)	†	**-1.8**	(0.1)	†
Sardegna	4.5	(0.1)	†	3.9	(0.1)	†	2.2	(0.0)	†	3.8	(0.1)	†	29.2	(0.2)	†	**0.7**	(0.1)	†
Toscana	4.4	(0.1)	†	3.6	(0.1)	†	2.3	(0.1)	†	4.0	(0.2)	†	28.5	(0.3)	†	**0.4**	(0.2)	†
Trento	4.2	(0.0)	†	3.4	(0.0)	†	2.5	(0.0)	†	4.8	(0.1)	†	29.0	(0.1)	†	**-0.5**	(0.1)	†
Spain																		
Andalusia	3.5	(0.1)	†	4.0	(0.1)	†	3.2	(0.1)	†	4.6	(0.1)		29.7	(0.3)	‡	**-1.1**	(0.1)	†
Aragon	3.7	(0.0)	†	3.6	(0.0)	†	3.3	(0.1)	†	4.0	(0.1)	†	26.9	(0.3)	†	**-0.3**	(0.1)	†
Asturias	3.9	(0.0)		3.9	(0.0)		3.3	(0.1)		3.6	(0.1)		27.9	(0.2)	†	**0.3**	(0.1)	
Balearic Islands	3.2	(0.0)		3.7	(0.0)		3.3	(0.1)		3.3	(0.1)		29.1	(0.2)	†	0.0	(0.0)	
Basque Country	3.3	(0.1)	†	3.6	(0.0)	†	3.1	(0.1)	†	3.9	(0.1)	†	29.2	(0.2)	‡	**-0.7**	(0.1)	†
Canary Islands	3.9	(0.0)		3.9	(0.0)		3.1	(0.1)		3.9	(0.1)		27.7	(0.2)	†	0.0	(0.1)	
Cantabria	3.7	(0.0)		3.6	(0.0)		3.0	(0.1)		3.5	(0.1)		28.1	(0.2)	†	**0.2**	(0.1)	
Castile and Leon	3.6	(0.0)		3.6	(0.0)		3.6	(0.1)		3.1	(0.0)		27.2	(0.2)	†	**0.5**	(0.0)	
Castile-La Mancha	4.0	(0.1)	†	3.9	(0.1)	†	3.4	(0.1)	†	3.9	(0.0)	†	28.3	(0.2)	†	0.1	(0.1)	†
Catalonia	3.2	(0.1)	†	3.9	(0.1)	†	3.0	(0.1)	†	4.0	(0.1)	†	30.9	(0.3)	†	**-0.7**	(0.1)	†
Ceuta	4.1	(0.2)	‡	4.1	(0.2)	‡	3.3	(0.2)	‡	3.5	(0.2)	‡	27.3	(1.2)	‡	**0.7**	(0.2)	‡
Comunidad Valenciana	3.1	(0.0)	†	3.6	(0.0)	†	3.0	(0.1)	†	3.3	(0.1)	†	29.7	(0.3)	‡	**-0.2**	(0.1)	†
Extremadura	3.8	(0.0)	†	3.8	(0.1)	†	3.3	(0.1)	†	3.8	(0.1)	†	27.7	(0.3)	†	0.0	(0.1)	†
Galicia	3.2	(0.1)		3.5	(0.0)		3.2	(0.1)		3.2	(0.0)		27.7	(0.2)	†	0.0	(0.1)	
La Rioja	3.6	(0.0)		3.6	(0.0)		3.0	(0.1)		3.8	(0.0)		27.5	(0.2)	†	**-0.2**	(0.1)	
Madrid	3.9	(0.0)		3.9	(0.0)		3.5	(0.1)		4.3	(0.1)		29.2	(0.2)	†	**-0.5**	(0.1)	
Melilla	3.9	(0.1)	†	3.8	(0.1)	†	3.1	(0.2)	†	3.5	(0.1)	†	29.3	(1.0)	‡	**0.4**	(0.1)	†
Murcia	3.9	(0.0)		3.9	(0.1)		3.1	(0.0)		4.0	(0.1)		28.4	(0.2)	†	**-0.2**	(0.1)	
Navarre	3.8	(0.1)		3.7	(0.0)		3.9	(0.1)		4.0	(0.1)		28.3	(0.2)		-0.2	(0.1)	
United Kingdom																		
England	4.4	(0.1)		4.2	(0.0)		5.3	(0.1)		1.8	(0.1)		26.8	(0.1)		**2.6**	(0.1)	
Northern Ireland	3.8	(0.1)		3.7	(0.1)		4.5	(0.1)		1.6	(0.1)		27.6	(0.2)		**2.2**	(0.1)	
*Scotland**	4.2	(0.0)		4.0	(0.0)		4.3	(0.1)		1.2	(0.1)		27.6	(0.2)		**3.0**	(0.1)	
Wales	4.0	(0.0)		4.1	(0.0)		5.0	(0.1)		1.7	(0.1)		26.7	(0.1)	†	**2.3**	(0.1)	

* PISA adjudicated region.

Notes: see Table V.B1.6.1 for national data.

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

Information regarding the proportion of the sample covered is shown next to the standard error. No symbol means at least 75% of the population was covered; one dagger (†) means at least 50% but less than 75%; and one double-dagger (‡) means less than 50% was covered. For comparisons across cycles, the coverage information corresponds to the cycle with the lowest sample coverage.

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Table V.B2.6.1 [2/2] **Average student learning time per week in regular school lessons, by subject**
Results based on students' reports; in hours

	Regular language-of-instruction lessons			Regular mathematics lessons			Regular science lessons			Foreign language lessons			Total learning time in regular lessons			Difference between language-of-instruction lessons and foreign language lessons		
	Hours	S.E.	x	Hours	S.E.	x	Hours	S.E.	x	Hours	S.E.	x	Hours	S.E.	x	Dif.	S.E.	x
Partners **Argentina**																		
CABA*	3.1	(0.1)	†	3.3	(0.1)	†	3.6	(0.2)	†	3.3	(0.2)	†	26.0	(0.5)	‡	-0.2	(0.2)	†
Cordoba*	3.3	(0.1)	‡	3.4	(0.1)	‡	4.1	(0.3)	‡	2.5	(0.1)	‡	27.4	(0.8)	‡	**0.9**	(0.1)	‡
PBA*	2.8	(0.1)	‡	3.1	(0.1)	‡	3.6	(0.2)	‡	2.1	(0.1)	‡	26.2	(0.6)	‡	**0.7**	(0.1)	‡
Tucuman*	2.9	(0.1)	‡	3.1	(0.1)	‡	3.3	(0.2)	‡	2.6	(0.2)	‡	23.7	(0.8)	‡	0.3	(0.2)	‡
Brazil																		
North	3.3	(0.2)	‡	3.4	(0.1)	‡	2.6	(0.2)	‡	1.8	(0.1)	‡	25.4	(0.9)	‡	**1.4**	(0.1)	‡
Northeast	3.7	(0.1)	†	3.7	(0.1)	†	3.0	(0.1)	†	1.8	(0.1)	†	25.6	(0.4)	‡	**1.8**	(0.1)	†
South	3.1	(0.1)	†	3.2	(0.1)	†	2.7	(0.2)	†	1.7	(0.1)	†	23.6	(0.4)	‡	**1.4**	(0.1)	†
Southeast	4.1	(0.1)	†	4.1	(0.1)	†	2.9	(0.1)	†	1.8	(0.0)	†	26.5	(0.3)	‡	**2.3**	(0.1)	†
Middle-West	4.1	(0.2)	†	4.2	(0.2)	†	3.4	(0.2)	†	2.2	(0.1)	†	26.3	(0.6)	‡	**1.9**	(0.2)	†
Indonesia																		
DI Yogyakarta	4.1	(0.1)		4.4	(0.1)		4.0	(0.2)		3.5	(0.1)		31.2	(0.3)	†	**0.5**	(0.1)	
DKI Jakarta	3.9	(0.1)		4.3	(0.1)		3.7	(0.2)		3.2	(0.1)		27.9	(0.6)	†	**0.6**	(0.1)	
Kazakhstan																		
Akmola region	2.7	(0.1)	†	3.4	(0.1)	†	2.2	(0.2)	†	1.9	(0.1)	†	27.5	(0.6)	‡	**0.8**	(0.1)	†
Aktobe region	2.7	(0.1)		3.3	(0.1)		2.9	(0.2)		2.0	(0.1)		26.3	(0.3)		**0.7**	(0.1)	
Almaty	2.8	(0.1)	†	3.7	(0.1)	†	2.4	(0.1)	†	2.3	(0.1)	†	27.9	(0.4)	†	**0.5**	(0.1)	†
Almaty region	2.9	(0.1)		3.4	(0.1)		2.9	(0.2)		2.2	(0.1)		26.7	(0.5)	†	**0.6**	(0.1)	
Astana	2.4	(0.0)		3.2	(0.1)		2.2	(0.1)		2.2	(0.1)		27.7	(0.5)	†	0.3	(0.2)	
Atyrau region	2.8	(0.1)		3.2	(0.1)		2.6	(0.2)		2.2	(0.1)		25.0	(0.3)	†	**0.6**	(0.1)	
East-Kazakhstan region	2.9	(0.1)	†	3.6	(0.2)	†	2.7	(0.2)	†	2.6	(0.1)	†	27.6	(0.4)	†	0.3	(0.1)	†
Karagandy region	2.9	(0.1)		3.5	(0.1)		2.7	(0.2)		2.2	(0.1)		28.1	(0.5)	†	**0.7**	(0.1)	
Kostanay region	2.7	(0.1)		3.4	(0.1)		2.6	(0.1)		2.0	(0.1)		27.1	(0.3)	†	**0.7**	(0.1)	
Kyzyl-Orda region	2.8	(0.1)		3.3	(0.1)		3.8	(0.2)		2.1	(0.0)		24.8	(0.2)	†	**0.7**	(0.1)	
Mangistau region	3.0	(0.1)		3.4	(0.2)		2.5	(0.2)		2.4	(0.1)		25.7	(0.4)	†	**0.6**	(0.1)	
North-Kazakhstan region	2.8	(0.1)	†	3.3	(0.1)	†	1.8	(0.1)	†	2.2	(0.1)	†	27.6	(0.4)	†	**0.6**	(0.1)	†
Pavlodar region	3.0	(0.1)		3.4	(0.1)		2.4	(0.2)		2.3	(0.1)		28.3	(0.5)	†	**0.7**	(0.1)	
South-Kazakhstan region	3.0	(0.1)	†	3.4	(0.1)	†	3.0	(0.1)	†	2.2	(0.1)	†	25.9	(0.3)	†	**0.7**	(0.1)	†
West-Kazakhstan region	2.6	(0.0)		3.2	(0.0)		2.3	(0.2)		2.0	(0.1)		26.4	(0.4)	†	**0.5**	(0.1)	
Zhambyl region	2.9	(0.1)	†	3.4	(0.1)	†	3.1	(0.2)	†	2.0	(0.1)	†	26.2	(0.4)	‡	**0.8**	(0.1)	†
Russia																		
Moscow city	2.7	(0.0)	†	4.2	(0.0)	†	4.6	(0.1)	†	2.9	(0.0)	†	26.5	(0.1)	†	**-0.3**	(0.1)	†
Moscow region*	2.6	(0.1)		4.0	(0.1)		4.7	(0.1)		2.6	(0.1)		26.7	(0.3)	†	0.0	(0.1)	
Republic of Tatarstan*	3.1	(0.1)		4.5	(0.0)		4.4	(0.1)		2.7	(0.0)		28.0	(0.1)	†	0.3	(0.1)	

* PISA adjudicated region.

Notes: see Table V.B1.6.1 for national data.

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

Information regarding the proportion of the sample covered is shown next to the standard error. No symbol means at least 75% of the population was covered; one dagger (†) means at least 50% but less than 75%; and one double-dagger (‡) means less than 50% was covered. For comparisons across cycles, the coverage information corresponds to the cycle with the lowest sample coverage.

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Table V.B2.7.1 [1/2] **Enrolment in public and private schools**
Results based on principals' reports about school management and the school's sources of funding

	Percentage of students enrolled in:											
	Government or public schools[1]			Private schools								
				Total			Government-dependent private schools[2]			Government-independent private schools[3]		
	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x
Belgium												
*Flemish community**	m	m		m	m		m	m		m	m	
French community	m	m		m	m		m	m		m	m	
German-speaking community	m	m		m	m		m	m		m	m	
Canada												
Alberta	1.4	(1.5)		1.6	(1.5)		97.0	(0.3)		3.0	(0.3)	
British Columbia	3.8	(2.1)		8.3	(2.4)		87.9	(2.6)		12.1	(2.6)	
Manitoba	1.3	(1.1)		6.0	(1.5)		92.7	(1.0)		7.3	(1.0)	
New Brunswick	0.0	c		0.0	c		100.0	c		0.0	c	
Newfoundland and Labrador	0.0	c		1.4	(1.3)		98.6	(1.3)		1.4	(1.3)	
Nova Scotia	0.0	c		0.0	c		100.0	c		0.0	c	
Ontario	2.8	(0.6)		0.4	(0.4)		96.8	(0.7)		3.2	(0.7)	
Prince Edward Island	0.0	c		0.0	c		100.0	c		0.0	c	
Quebec	14.3	(2.4)		8.1	(1.8)		77.6	(1.9)		22.4	(1.9)	
Saskatchewan	0.9	(0.9)		3.7	(0.3)		95.4	(0.9)		4.6	(0.9)	
Colombia												
Bogotá	39.8	(2.1)		0.0	c		60.2	(2.1)		39.8	(2.1)	
Italy												
Bolzano	0.3	(0.0)		2.6	(0.2)		97.1	(0.2)		2.9	(0.2)	
Sardegna	1.5	(1.2)		0.0	c		98.5	(1.2)		1.5	(1.2)	
Toscana	0.9	(0.5)		0.0	c		99.1	(0.5)		0.9	(0.5)	
Trento	1.0	(0.1)		24.6	(0.8)		74.4	(0.9)		25.6	(0.9)	
Spain												
Andalusia	0.0	c		21.7	(3.0)		78.3	(3.0)		21.7	(3.0)	
Aragon	8.2	(4.1)		27.4	(3.9)		64.4	(1.1)		35.6	(1.1)	
Asturias	1.4	(1.0)		28.7	(2.4)		69.9	(1.9)		30.1	(1.9)	
Balearic Islands	8.1	(2.3)		23.3	(4.1)		68.6	(3.5)		31.4	(3.5)	
Basque Country	0.0	c		51.2	(1.3)		48.8	(1.3)		51.2	(1.3)	
Canary Islands	11.9	(4.0)		12.1	(4.2)		76.0	(1.9)		24.0	(1.9)	
Cantabria	2.0	(1.9)		25.9	(2.5)		72.1	(2.7)		27.9	(2.7)	
Castile and Leon	3.4	(2.4)		31.1	(2.9)		65.5	(1.7)		34.5	(1.7)	
Castile-La Mancha	3.9	(2.8)		17.0	(2.5)		79.1	(0.6)		20.9	(0.6)	
Catalonia	5.3	(3.2)		31.1	(2.5)		63.6	(2.7)		36.4	(2.7)	
Ceuta	0.0	c	†	32.5	(1.0)	†	67.5	(1.0)	†	32.5	(1.0)	†
Comunidad Valenciana	8.4	(3.8)		25.5	(3.5)		66.1	(1.0)		33.9	(1.0)	
Extremadura	0.0	c		22.1	(1.8)		77.9	(1.8)		22.1	(1.8)	
Galicia	5.4	(2.3)		22.6	(1.9)		72.1	(2.0)		27.9	(2.0)	
La Rioja	0.0	c		40.0	(0.3)		60.0	(0.3)		40.0	(0.3)	
Madrid	14.6	(2.9)		31.8	(2.8)		53.7	(1.0)		46.3	(1.0)	
Melilla	0.0	c		10.8	(0.6)		89.2	(0.6)		10.8	(0.6)	
Murcia	0.0	c		26.5	(2.2)		73.5	(2.2)		26.5	(2.2)	
Navarre	0.0	c		39.8	(2.0)		60.2	(2.0)		39.8	(2.0)	
United Kingdom												
England	7.0	(1.6)		70.2	(3.0)		22.8	(2.5)		77.2	(2.5)	
Northern Ireland	0.0	(0.0)		10.5	(3.8)		89.5	(3.8)		10.5	(3.8)	
*Scotland**	3.5	(2.3)		1.0	(1.1)		95.5	(2.5)		4.5	(2.5)	
Wales	0.9	(0.5)		2.4	(0.6)		96.7	(0.5)		3.3	(0.5)	

1. Schools that are directly or indirectly managed by a public education authority, government agency, or governing board appointed by a public authority or elected by public franchise.

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3. Privately managed schools that receive less than 50% of their core funding (i.e. funding that supports the basic educational services of the institution) from government agencies.

* PISA adjudicated region.

Notes: see Table V.B1.7.1 for national data.

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Table V.B2.7.1 [2/2] **Enrolment in public and private schools**
Results based on principals' reports about school management and the school's sources of funding

	Percentage of students enrolled in:											
	Government or public schools[1]			Private schools								
				Total			Government-dependent private schools[2]			Government-independent private schools[3]		
	%	S.E.	x	%	S.E.	x	%	S.E.	x	%	S.E.	x
Argentina												
*CABA**	15.8	(3.8)		32.6	(4.4)		51.6	(3.4)		48.4	(3.4)	
*Cordoba**	14.0	(3.7)		31.8	(3.8)		54.3	(2.2)		45.7	(2.2)	
*PBA**	6.9	(3.2)		27.9	(3.6)		65.2	(2.2)		34.8	(2.2)	
*Tucuman**	4.8	(2.6)		22.5	(4.0)		72.6	(3.2)		27.4	(3.2)	
Brazil												
North	13.9	(5.0)		0.0	c		86.1	(5.0)		13.9	(5.0)	
Northeast	10.0	(2.7)		2.0	(0.8)		88.0	(2.3)		12.0	(2.3)	
South	14.5	(1.4)		0.0	c		85.5	(1.4)		14.5	(1.4)	
Southeast	9.7	(2.2)		7.9	(2.2)		82.4	(1.5)		17.6	(1.5)	
Middle-West	10.8	(2.7)		3.1	(2.6)		86.1	(2.2)		13.9	(2.2)	
Indonesia												
DI Yogyakarta	11.8	(4.9)		27.9	(6.6)		60.3	(4.8)		39.7	(4.8)	
DKI Jakarta	30.4	(5.9)		21.7	(7.4)		47.9	(4.8)		52.1	(4.8)	
Kazakhstan												
Akmola region	3.3	(3.2)		0.0	c		96.7	(3.2)		3.3	(3.2)	
Aktobe region	7.5	(0.8)		0.0	c		92.5	(0.8)		7.5	(0.8)	
Almaty	11.2	(5.7)		8.7	(5.6)		80.1	(4.3)		19.9	(4.3)	
Almaty region	3.8	(3.7)		0.0	c		96.2	(3.7)		3.8	(3.7)	
Astana	14.8	(4.8)		0.0	c		85.2	(4.8)		14.8	(4.8)	
Atyrau region	3.8	(3.8)		3.6	(3.6)		92.7	(5.2)		7.3	(5.2)	
East-Kazakhstan region	3.3	(3.3)		2.6	(1.8)		94.1	(1.4)		5.9	(1.4)	
Karagandy region	6.8	(4.8)		3.4	(3.4)		89.8	(3.4)		10.2	(3.4)	
Kostanay region	3.2	(3.2)		0.0	c		96.8	(3.2)		3.2	(3.2)	
Kyzyl-Orda region	11.2	(6.4)		3.7	(3.7)		85.2	(5.2)		14.8	(5.2)	
Mangistau region	5.9	(1.5)		0.0	c		94.1	(1.5)		5.9	(1.5)	
North-Kazakhstan region	0.0	c		0.0	c		100.0	c		0.0	c	
Pavlodar region	0.0	c		2.4	(2.4)		97.6	(2.4)		2.4	(2.4)	
South-Kazakhstan region	6.6	(4.0)		3.1	(3.1)		90.4	(5.1)		9.6	(5.1)	
West-Kazakhstan region	3.3	(3.3)		0.0	c		96.7	(3.3)		3.3	(3.3)	
Zhambyl region	3.2	(3.2)		0.8	(0.0)		96.0	(3.2)		4.0	(3.2)	
Russia												
Moscow city	0.0	c		0.0	c		100.0	c		0.0	c	
*Moscow region**	0.0	c		0.0	c		100.0	c		0.0	c	
*Republic of Tatarstan**	0.0	c		0.0	c		100.0	c		0.0	c	

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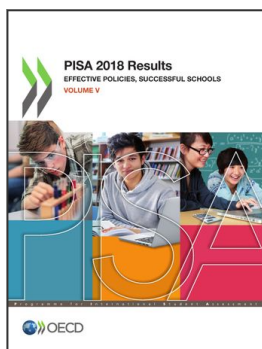
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