

Exhibit 6.19: Principals' Formal Education*

Students' Results based on Principals' Reports

Country	Percent of Students by Principals' Education Level			Percent of Students by Principals' Educational Leadership Qualification or Credential***	
	Completed Postgraduate University Degree**	Completed Bachelor's Degree or Equivalent but Not a Postgraduate Degree	Did Not Complete Bachelor's Degree	Certificate or License	Postgraduate Degree
Albania	57 (4.2)	37 (3.9)	6 (2.1)	51 (4.5)	48 (3.9)
Armenia	77 (3.9)	22 (3.8)	1 (0.7)	92 (2.2)	29 (4.1)
Australia	r 40 (3.0)	59 (2.9)	1 (0.8)	- -	r 31 (2.7)
Austria	18 (2.7)	45 (3.8)	37 (3.5)	91 (2.3)	17 (2.5)
Azerbaijan	34 (3.0)	57 (3.1)	9 (2.1)	68 (3.7)	21 (3.3)
Bahrain	39 (2.0)	61 (2.1)	1 (0.5)	89 (1.7)	25 (2.0)
Belgium (Flemish)	6 (2.2)	94 (2.2)	0 (0.0)	88 (3.6)	6 (2.7)
Bosnia and Herzegovina	17 (3.2)	77 (3.3)	6 (1.6)	44 (4.0)	7 (1.9)
Bulgaria	93 (2.6)	5 (1.7)	2 (2.0)	59 (3.7)	28 (3.9)
Canada	64 (2.1)	36 (2.1)	0 (0.0)	60 (2.9)	45 (2.6)
Chile	67 (3.5)	32 (3.5)	0 (0.3)	73 (3.7)	57 (3.8)
Chinese Taipei	91 (2.5)	9 (2.5)	0 (0.0)	60 (3.8)	77 (3.7)
Croatia	96 (1.8)	2 (1.2)	2 (1.3)	10 (2.8)	41 (4.5)
Cyprus	72 (4.6)	26 (4.4)	2 (1.2)	42 (5.1)	42 (4.9)
Czech Republic	99 (0.6)	1 (0.6)	0 (0.0)	90 (2.8)	21 (3.6)
Denmark	r 22 (3.8)	73 (4.1)	4 (1.9)	r 93 (2.3)	r 18 (3.3)
England	s 22 (4.2)	78 (4.2)	0 (0.0)	s 61 (5.5)	s 17 (3.5)
Finland	98 (1.2)	2 (1.2)	0 (0.0)	89 (2.2)	35 (3.8)
France	32 (3.9)	49 (4.8)	20 (3.6)	23 (3.9)	3 (1.4)
Georgia	94 (2.0)	6 (2.0)	0 (0.0)	r 92 (2.9)	r 77 (4.1)
Germany	91 (2.1)	3 (1.5)	6 (1.6)	49 (3.8)	25 (3.2)
Hong Kong SAR	66 (4.7)	33 (4.7)	1 (0.6)	82 (4.4)	57 (4.4)
Hungary	42 (4.7)	58 (4.7)	0 (0.0)	97 (1.5)	- -
Iran, Islamic Rep. of	28 (3.4)	68 (3.6)	4 (1.7)	55 (3.5)	21 (3.0)
Ireland	53 (4.2)	45 (4.2)	2 (1.3)	31 (4.1)	25 (3.7)
Italy	87 (3.2)	12 (3.2)	1 (0.8)	- -	36 (4.1)
Japan	13 (2.9)	87 (2.9)	0 (0.0)	24 (3.5)	19 (3.5)
Kazakhstan	15 (3.1)	84 (3.2)	1 (1.1)	83 (3.0)	10 (2.4)
Korea, Rep. of	91 (2.4)	9 (2.4)	1 (0.6)	79 (3.4)	88 (2.8)
Kosovo	42 (4.1)	42 (4.3)	16 (3.0)	93 (3.2)	48 (4.5)
Kuwait	22 (2.5)	69 (3.3)	9 (2.4)	64 (4.7)	24 (2.6)
Latvia	91 (2.4)	9 (2.4)	0 (0.1)	54 (3.8)	38 (3.9)
Lithuania	82 (2.7)	18 (2.7)	0 (0.0)	67 (3.7)	63 (4.1)
Malta	77 (0.4)	23 (0.4)	0 (0.0)	67 (0.4)	49 (0.4)
Montenegro	24 (0.5)	74 (0.5)	2 (0.1)	79 (0.6)	15 (0.3)
Morocco	5 (1.4)	70 (3.1)	25 (2.9)	76 (3.7)	1 (0.7)
Netherlands	s 19 (4.9)	69 (5.4)	12 (4.3)	s 85 (4.1)	- -
New Zealand	47 (4.1)	36 (4.0)	17 (2.9)	- -	- -
North Macedonia	24 (3.4)	76 (3.4)	0 (0.3)	90 (2.8)	18 (3.2)
Northern Ireland	r 75 (4.7)	25 (4.7)	0 (0.0)	r 75 (4.4)	r 59 (4.8)
Norway (5)	r 34 (4.3)	64 (4.4)	2 (1.1)	r 77 (4.3)	r 28 (3.8)
Oman	27 (2.9)	58 (3.4)	14 (2.5)	67 (3.4)	22 (3.1)
Pakistan	66 (7.3)	17 (6.8)	17 (3.4)	53 (7.4)	53 (6.7)
Philippines	79 (3.2)	20 (3.2)	1 (0.7)	78 (3.2)	80 (3.1)
Poland	99 (0.8)	0 (0.0)	1 (0.8)	46 (4.6)	63 (4.4)
Portugal	36 (3.9)	62 (3.9)	1 (0.9)	- -	35 (4.1)
Qatar	51 (2.5)	49 (2.6)	1 (0.5)	77 (2.8)	47 (2.8)
Russian Federation	82 (2.6)	18 (2.6)	0 (0.2)	93 (2.1)	16 (2.3)
Saudi Arabia	13 (2.5)	77 (3.2)	11 (2.2)	20 (3.5)	9 (2.4)
Serbia	35 (4.0)	65 (4.0)	0 (0.0)	26 (3.7)	20 (3.5)
Singapore	63 (0.0)	36 (0.0)	1 (0.0)	97 (0.0)	44 (0.0)
Slovak Republic	100 (0.0)	0 (0.0)	0 (0.0)	94 (1.8)	56 (4.2)
South Africa (5)	11 (2.3)	65 (3.3)	24 (2.8)	65 (3.3)	10 (2.2)
Spain	56 (3.5)	43 (3.6)	1 (0.7)	74 (3.0)	18 (2.6)
Sweden	41 (4.2)	55 (4.3)	4 (1.8)	73 (4.2)	49 (4.6)
Turkey (5)	20 (3.2)	78 (3.3)	2 (1.1)	67 (3.9)	17 (3.1)
United Arab Emirates	r 63 (0.7)	36 (0.7)	1 (0.3)	r 76 (1.2)	r 54 (1.1)
United States	98 (0.9)	2 (0.9)	0 (0.0)	91 (1.6)	92 (1.6)
International Average	54 (0.4)	42 (0.4)	5 (0.2)	68 (0.5)	36 (0.5)
Benchmarking Participants					
Ontario, Canada	58 (4.2)	42 (4.2)	0 (0.0)	69 (5.4)	38 (5.1)
Quebec, Canada	63 (4.2)	37 (4.2)	0 (0.0)	44 (4.4)	39 (4.0)
Moscow City, Russian Fed.	95 (1.9)	5 (1.9)	0 (0.0)	97 (1.4)	39 (4.4)
Madrid, Spain	60 (3.9)	40 (3.9)	0 (0.0)	81 (2.8)	21 (3.4)
Abu Dhabi, UAE	r 65 (1.1)	35 (1.1)	0 (0.0)	r 77 (1.2)	r 59 (1.3)
Dubai, UAE	r 65 (0.3)	35 (0.3)	0 (0.0)	r 73 (0.3)	r 55 (0.3)

* Based on countries' categorizations according to UNESCO's International Standard Classification of Education (Operational Manual for ISCED-2011).

** For example, doctorate, master's, or other postgraduate degree.

*** Principals could indicate holding more than one qualification or credential.

() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

A dash (-) indicates comparable data not available.

An "r" indicates data are available for at least 70% but less than 85% of the students. An "s" indicates data are available for at least 50% but less than 70% of the students.

Exhibit 6.20: Principals' Formal Education*

Students' Results based on Principals' Reports

Country	Percent of Students by Principals' Education Level			Percent of Students by Principals' Educational Leadership Qualification or Credential***	
	Completed Postgraduate University Degree**	Completed Bachelor's Degree or Equivalent but Not a Postgraduate Degree	Did Not Complete Bachelor's Degree	Certificate or License	Postgraduate Degree
Australia	58 (2.9)	42 (2.9)	0 (0.0)	- -	50 (3.0)
Bahrain	39 (0.3)	60 (0.2)	1 (0.0)	89 (0.2)	21 (0.2)
Chile	72 (3.6)	27 (3.6)	0 (0.4)	76 (3.5)	64 (4.1)
Chinese Taipei	90 (2.2)	10 (2.2)	0 (0.0)	60 (3.4)	64 (3.3)
Cyprus	r 78 (0.4)	22 (0.4)	0 (0.0)	r 32 (0.5)	r 40 (0.5)
Egypt	3 (1.3)	90 (2.4)	7 (2.0)	86 (2.6)	4 (1.7)
England	s 51 (5.1)	49 (5.1)	0 (0.0)	s 65 (4.7)	s 43 (4.9)
Finland	99 (0.6)	1 (0.6)	0 (0.0)	97 (1.2)	48 (3.9)
France	r 72 (4.2)	27 (4.3)	1 (0.9)	r 27 (3.9)	r 30 (4.3)
Georgia	96 (1.8)	4 (1.8)	0 (0.0)	r 91 (3.0)	r 75 (4.1)
Hong Kong SAR	93 (2.2)	7 (2.2)	0 (0.0)	85 (3.4)	66 (4.3)
Hungary	50 (4.0)	49 (4.1)	1 (0.8)	98 (1.2)	- -
Iran, Islamic Rep. of	35 (3.1)	64 (3.3)	2 (0.8)	45 (3.3)	24 (3.3)
Ireland	77 (3.5)	23 (3.5)	0 (0.0)	60 (4.1)	58 (4.1)
Israel	98 (1.1)	2 (1.1)	0 (0.0)	88 (2.7)	83 (2.9)
Italy	93 (2.3)	7 (2.2)	1 (0.7)	- -	33 (3.5)
Japan	8 (2.2)	92 (2.2)	0 (0.0)	25 (3.6)	12 (2.7)
Jordan	53 (4.4)	45 (4.4)	2 (0.9)	89 (2.1)	37 (4.0)
Kazakhstan	16 (3.3)	83 (3.4)	2 (1.1)	80 (3.3)	10 (2.7)
Korea, Rep. of	86 (2.9)	14 (2.9)	0 (0.0)	80 (2.9)	83 (3.1)
Kuwait	19 (3.7)	70 (4.4)	11 (2.5)	63 (3.7)	14 (2.8)
Lebanon	56 (4.1)	35 (3.9)	9 (2.0)	62 (3.2)	34 (3.8)
Lithuania	80 (3.2)	19 (3.1)	1 (0.9)	69 (4.3)	48 (4.3)
Malaysia	37 (3.6)	62 (3.6)	0 (0.3)	67 (3.8)	43 (3.9)
Morocco	7 (1.9)	75 (3.0)	18 (3.1)	70 (2.9)	5 (1.5)
New Zealand	79 (4.0)	20 (4.0)	1 (1.0)	- -	- -
Norway (9)	r 42 (4.7)	57 (4.8)	1 (1.2)	r 69 (4.8)	r 34 (4.5)
Oman	29 (3.1)	62 (3.4)	9 (2.2)	64 (3.4)	23 (3.0)
Portugal	42 (3.9)	57 (3.9)	1 (0.9)	- -	34 (3.5)
Qatar	45 (2.3)	54 (2.6)	1 (1.1)	85 (2.1)	42 (2.2)
Romania	59 (3.8)	41 (3.8)	0 (0.0)	81 (2.9)	39 (3.6)
Russian Federation	83 (2.8)	17 (2.8)	0 (0.0)	93 (2.0)	14 (2.1)
Saudi Arabia	8 (2.1)	88 (2.7)	5 (1.6)	19 (2.9)	r 4 (1.5)
Singapore	67 (0.0)	33 (0.0)	0 (0.0)	95 (0.0)	44 (0.0)
South Africa (9)	13 (1.6)	80 (2.3)	7 (1.6)	57 (3.2)	13 (1.7)
Sweden	42 (4.2)	56 (4.3)	2 (1.2)	79 (3.4)	46 (4.4)
Turkey	22 (3.2)	76 (3.4)	2 (1.3)	67 (4.1)	18 (2.9)
United Arab Emirates	61 (1.0)	39 (1.0)	1 (0.2)	75 (1.2)	50 (1.4)
United States	98 (1.3)	2 (1.3)	0 (0.0)	95 (1.4)	95 (1.6)
International Average	55 (0.5)	43 (0.5)	2 (0.2)	71 (0.5)	39 (0.5)
Benchmarking Participants					
Ontario, Canada	r 52 (6.1)	48 (6.1)	0 (0.0)	r 83 (3.5)	r 42 (6.2)
Quebec, Canada	55 (5.0)	45 (5.0)	0 (0.2)	56 (5.4)	29 (4.8)
Moscow City, Russian Fed.	95 (1.7)	5 (1.7)	0 (0.0)	97 (1.5)	38 (4.4)
Gauteng, RSA (9)	18 (3.1)	74 (3.4)	8 (2.0)	53 (3.7)	20 (3.3)
Western Cape, RSA (9)	15 (3.2)	81 (3.5)	4 (1.8)	58 (4.0)	12 (2.9)
Abu Dhabi, UAE	r 63 (1.4)	36 (1.2)	1 (0.6)	r 74 (1.6)	r 55 (1.5)
Dubai, UAE	r 73 (0.4)	27 (0.4)	0 (0.0)	r 68 (0.4)	r 54 (0.5)

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