

# TIMSS 2011 Grade 4 Stratification Variables

Country	Explicit stratification variables	Number of explicit strata	Implicit stratification variables
Azerbaijan, Republic of	National Examination Score (4)	4	Geographic sub index (5); school type if score missing, NGE grouping otherwise (12)
Australia	States / Territories (8)	8	Geographic Location (3); SEIFA (10); School Type (3)
Austria	Regions (Bundesland) (9)	9	District (121)
Bahrain, Kingdom of	Public / private (2) Governates within Public (5)	6	School gender within Public Schools (2);
Armenia	Grade 4 only / Grade 4 & 8 schools (2)	2	Provinces (11); regions within Yerevan (11)
Botswana	Inspectoral Regions (6)	6	Performance level (4)
Chile	School Administration (3) Grade 4 only / Grade 4 & 8 schools (2)	6	Achievement categories (14); Urban / rural (2)
Chinese Taipei	Region (5)	5	None
Hrvatska (Croatia)	School type (3)	3	Regions or Areas (21)
Czech Republic	Extended education status (2)	2	Regions (14)
Denmark	Public / private (2)	2	None
Finland	Major Regions (5) Urban, semi-urban / rural (2)	10	None
Georgia	Regions (12) Grade 4 only / Grade 4 & 8 schools (2)	13	State / private (2); Highlands / towns / villages (3)
Germany	Federal States (16)	16	Regional subdivisions (30), School type (3)
Honduras, Republic of	Grade 4 only / Grade 4 & 8 schools (2) Public / private (2) Urban / rural (2)	6	School type (4); Geographic areas (18); Urban / private (2)
Hong Kong, SAR	School type (5) Sessions (am / pm / day) (3)	7	School gender (3)
Hungary	Type of community (4) Grade 4 only / Grade 4 & 8 schools (2)	8	Geographical regions (7)
Iran, Islamic Rep. Of	None	1	Provinces (31); Public / private (2); School gender (3)
Ireland	School Size (4)	4	School-level SES (4); Language of instruction (3); School gender (3)
Italy	Geographic areas (7) Grade 4 only / Grade 4 & 8 schools (2)	14	Public/ private (2); Regions or provinces (104)
Japan	School Location (4)	4	None

Country	Explicit stratification variables	Number of explicit strata	Implicit stratification variables
Kazakhstan	Regions (16) Grade 4 only / Grade 4 & 8 schools (2)	17	Urban / rural (2); Languages of Instruction (3); ISCED level (3) ; School Performance (4)
Korea, Republic of	16 provinces (regions) (16)	16	School location (Urban, Suburb, Rural) (3)
Kuwait, State of	Regions (6)	6	Boys / girls (2)
Lithuania	Grade 4 only / Grade 4 & 8 schools (2) School location (4)	8	School type (6)
Malta	None	1	Malta / Gozo (2); School type (3)
Morocco	Public / private (2) Superior region (10)	11	Urban / rural (2); School type (10)
Oman	Grade 4 only / Grade 4 & 8 schools (2) Regions (11) School type (4)	27	Urban / rural (2); School gender (3)
Netherlands	SES Level (5)	5	Urbanisation (5); School Size (2)
New Zealand	Language of instruction (3) Grade 4 only / Grade 4 & 8 schools (2) School size (3)	6	SES indicator (5); School gender (3); Major urban / others (2)
Norway	Bokmål / Nynorsk, other) (2) Grade 4 only / Grade 4 & 8 schools (2)	4	Community sizes (4)
Poland	Urbanisation (4)	4	Districts (voivodship) (16)
Portugal	Public / private (2)	2	Regions (12)
Qatar	Grade 4 only / Grade 4 & 8 schools (2)	2	School gender (3); School type (3)
Romania	Grade 4 only / Grade 4 & 8 schools (2) School performance (5)	6	Urban / rural (2); Geographical location (6)
Russian Federation	Very large regions (16)	16	Urbanisation within selected regions (9)
Saudi Arabia	School Type (3) Boys / girls (2)	5	School Location (5); Public / private (2);
Serbia	Regions (3) School type (3) Enrollment (2)	10	Urban / rural (2); Index for Branch Dept
Singapore	Grade 4 only / Grade 4 & 8 schools (2)	2	None
Slovak Republic	Regions (8) Slovak / Hungarian (2)	13	Public / church or private (2)
Slovenia	Regions (12) Geographical areas (4) Grade 4 only / Grade 4 & 8 schools (2)	16	Language achievement category (9); Mathematics achievement category (8); Regions (12)
Andalucia	Andalucia	1	Public / private (2)
Spain	Autonomous Communities (18)	18	Public / private (2)
Sweden	Immigrant status (4) New schools (1)	5	Grade 4 only / Grade 4 & 8 schools (2); Grade point average (7)
Thailand	Grade 4 only / Grade 4 & 8 schools (2) School Type (5)	10	Region (North, South, Central, North-eastern, Bangkok) (5)
United Arab Emirates	Educational Zones (9) Grade 4 only / Grade 4 & 8 schools (2)	18	School Type (3); Curricula (24) ; School gender (3) ; Test Language (3)

Country	Explicit stratification variables	Number of explicit strata	Implicit stratification variables
Tunisia	Public / private (2) Districts (within 'Public') (7)	8	Regions (25)
Turkey, Republic of	Geographical regions (7) Grade 4 only / Grade 4 & 8 schools (2)	14	Public / private (2); Urban / rural (2)
United States	High / low poverty index (2) Public / private (2) Census regions (4)	12	Location (4); Ethnicity status (2)
Florida	High / low poverty index (2)	2	Location (4); Ethnicity status (2)
North Carolina	High / low poverty index (2)	2	Location (4); Ethnicity status (2)
Yemen	Programs (FGI, Not FGI) (2) Urban / rural (2) Overlap (Grade 4 only, Grade 4 and Grade 6) (2) School gender (3)	8	Governorate (21); Private / National, public (2)
England	Grade 4 only / Grade 4 & 8 schools (2)	2	Attainment (6); School type (4)
Northern Ireland	Regions (5)	5	Deprivation Level (5)
Belgium (Flemish)	Provinces (5) Private / official (2)	10	Equal opportunity policy level (5)
Yemen (Grade 6)	Grade 4 only / Grade 4 & 8 schools (2) Programs (FGI, Not FGI) (2) School gender (3) Urban / rural (2)	8	Governorate (21); Private / National, public (2)
Ontario	Grade 4 only / Grade 4 & 8 schools (2) English / French (2)	4	Geographical regions (6); Type of school (4)
Quebec	Grade 4 only / Grade 4 & 8 schools (2) English / French (2)	4	Public / private (2); All non native / No (2)
Alberta	Grade 4 only / Grade 4 & 8 schools (2) School Size (2)	4	Funding (3); Immersion school status (2)
Dubai	Grade 4 only / Grade 4 & 8 schools (2)	2	Curricula (14) ; Test Language (3)
Abu Dhabi	Grade 4 only / Grade 4 & 8 schools (2) Educational zones (3)	6	Private / public (2); Curricula (24) ; School gender (3); Test Language (3)

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Australia	States / Territories (8)	8	Geographic Location (3); SEIFA (10); School Type (3)
Bahrain, Kingdom of	Public /private (2) Governates within public (5)	6	School gender within Public Schools (2);
Armenia	Grade 8 only / Grade 4 & 8 schools (2)	2	Provinces (11); regions within Yerevan (11)
Botswana	Inspectoral Regions (5)	5	Performance level (4)
Chile	School Administration (3) Grade 8 only / Grade 4 & 8 schools (2)	6	Achievement categories (14); Urban / rural (2)
Chinese Taipei	Regions (5)	5	Achievement score (9)
Finland	Major Regions (5) Urban, semi-urban / rural (2)	10	None
Georgia	Regions (12) Grade 8 only / Grade 4 & 8 schools (2)	13	State / private (2); Highlands / towns / villages (3)
Palestinian Nat'l Auth.	School Gender (3) School Type (3) School Group (3)	7	School gender (3); Educational districts (22)
Ghana	Public / private (2)	2	Regions (10)
Honduras, Republic of	Grade 8 only / Grade 4 & 8 schools (2) Public / private (2) Urban / rural (2)	6	School type (4); Geographic areas (18); Urban / private (2)
Hong Kong, SAR	School type (3)	3	School gender (3); School banding (3)
Hungary	Type of community (4) Grade 8 only / Grade 4 & 8 schools (2)	8	Geographical regions (7)
Indonesia	Public / private (2) General / islamic (2)	4	School Classification (3); Provinces (31)
Iran, Islamic Rep. Of	None	1	Provinces (31); Public / private (2); School gender (3)
Israel	Grade 8 only / Grade 4 & 8 schools (2) School orientation (5)	10	Socio-Economic Status (SES) (3); School gender (3); Geographical regions (2)
Italy	Geographic areas (7) Grade 8 only / Grade 4 & 8 schools (2)	14	Public/ private (2); Regions or provinces (104)
Japan	Public / private, national (2) School Location (4)	5	None

Country	Explicit stratification variables	Number of explicit strata	Implicit stratification variables
Kazakhstan	Regions (16) Grade 8 only / Grade 4 & 8 schools (2)	17	Urban / rural (2); Languages of Instruction (3); ISCED level (3); School Performance (4)
Jordan	School type (6)	6	Scale index (7); Governorates (12); Urban / rural (2); School gender (3)
Korea, Republic of	16 provinces (regions) (16)	16	Urbanization (3); School gender (3)
Lebanon	Performance level (2) Public / private (2)	3	Regions (7)
Lithuania	Grade 8 only / Grade 4 & 8 schools (2) School location (4)	8	School type (6)
Malaysia	None	1	Regions (16), Urbanization (Rural, Urban, PED) (3)
Morocco	Public / private (2) Superior region (10)	11	Urban / rural (2); School type (12)
Oman	Grade 8 only / Grade 4 & 8 schools (2) Regions (11) School type (4)	26	Urban / rural (2); School gender (3)
New Zealand	Grade 8 only / Grade 4 & 8 schools (2) Language of instruction (3) School size (3)	5	SES indicator (5); School gender (3); Major urban / others (2)
Norway	Bokmål / Nynorsk, other) (2) Grade 8 only / Grade 4 & 8 schools (2)	4	Community sizes (4)
Qatar	Grade 8 only / Grade 4 & 8 schools (2)	2	School gender (3); School type (3)
Romania	Grade 8 only / Grade 4 & 8 schools (2) School performance (5)	6	Urban, rural (2); School performance (4); Geographical location (7)
Russian Federation	Very large regions (14)	14	Urbanisation within selected regions (9)
Saudi Arabia	Boys / girls (2) Ministry / International (2)	3	School Location (5); Public / private (2); School gender (2)
Singapore	Grade 8 only / Grade 4 & 8 schools (2)	2	None
Slovenia	Regions (12) Grade 8 only / Grade 4 & 8 schools (2)	13	Language achievement category (9); Mathematics achievement category (8); Regions (5)
South Africa	Provinces (9) Languages (3) School type (3)	29	Poverty index (7); Location (10)
Sweden	Immigrant status (4) New schools (1)	5	Grade 8 only / Grade 4 & 8 schools (2); Grade point average (7)
Syrian Arab Republic	School gender (3) Public / private (2)	4	Provinces (14)
Thailand	Grade 8 only / Grade 4 & 8 schools (2) School Type (5)	10	Regions (5)
United Arab Emirates	Educational Zones (9) Grade 8 only / Grade 4 & 8 schools (2)	18	School Type (3); Curricula (24); School gender (3); Test Language (3)
Tunisia	Public / private (2) District (within 'Public') (7)	8	Regions (25)
Turkey, Republic of	Geographical regions (7)	7	Public / private (2); Urban / rural (2)

Country	Explicit stratification variables	Number of explicit strata	Implicit stratification variables
Ukraine	Grade 8 only / Grade 4 & 8 schools (2) Urban / rural (2)	4	School stages (3); Regions (27)
Macedonia	Language (5)	5	Urban / rural (2)
United States	High / low poverty index (2) Public / private (2) Census regions (4)	12	Location (4); Ethnicity status (2)
Alabama	High / low poverty index (2)	2	Location (5); Ethnicity status (2)
California	High / low poverty index (2)	2	Location (4); Ethnicity status (2)
Colorado	High / low poverty index (2)	2	Location (4); Ethnicity status (2)
Connecticut	High / low poverty index (2)	2	Location (4); Ethnicity status (2)
Florida	High / low poverty index (2)	2	Location (4); Ethnicity status (2)
Indiana	High / low poverty index (2)	2	Location (4); Ethnicity status (2)
Massachusetts	High / low poverty index (2)	2	Location (4); Ethnicity status (2)
Minnesota	High / low poverty index (2)	2	Location (4); Ethnicity status (2)
North Carolina	High / low poverty index (2)	2	Location (4); Ethnicity status (2)
England	Grade 8 only / Grade 4 & 8 schools (2)	2	Attainment (6); School type (4)
Finland (Grade 7)	Major Regions (5) Urban, semi-urban / rural (2)	10	None
Ontario	Grade 8 only / Grade 4 & 8 schools (2) English / French (2)	4	Geographical regions (6); Type of school (4)
Quebec	Grade 8 only / Grade 4 & 8 schools (2) Special programs / No (2) English / French (2)	6	Public / private (2); All non native / No (2)
Alberta	Grade 8 only / Grade 4 & 8 schools (2) School Size (2)	3	Funding (3); Immersion school status (2)
Dubai	Grade 8 only / Grade 4 & 8 schools (2)	2	Curricula (14) ; Test Language (3)
Abu Dhabi	Grade 8 only / Grade 4 & 8 schools (2) Educational zones (3)	6	Private / public (2); Curricula (24) ; School gender (3); Test Language (3)