THERE ARE NO QUESTIONS ON THIS PAGE

2. Are you female or male?

Check one box only.

5. In one typical calendar week from Monday to Sunday, for how many single <hours/periods> are you formally <scheduled/time-tabled> to teach each of the following subjects?

NRC Note: <List only the generic science courses appropriate for your country.>

7. APPROXIMATELY how many hours per week do you normally spend on each of the following activities outside the formal school day? Do not include time already accounted for in Question # 6.

		Check	Check one box in each row.			
		None	Less than 1 hour	1 - 2 hours	3 - 4 hours	More than 4 hours
a)	preparing or grading student tests or exams					
b)	reading and grading other student work					
c)	planning lessons by yourself					
d)	meeting with students outside of classroom time (e.g., tutoring, guidance)					
e)	meeting with parents					
f)	professional reading and development activity (e.g., seminars, conferences, etc.)					
g)	keeping students' records up to date					
h)	administrative tasks including staff meetings (e.g. photocopying, displaying students' work)					
i)	other					

8. APPROXIMATELY how many hours per week do you normally spend on your teaching activities altogether (include time spent in and out of school)?

Please round to the nearest whole hour.

9. About how often do you have meetings with other teachers in your subject area to discuss and plan curriculum or teaching approaches?

Check one box only.

never	
once or twice a year	
every other month	
once a month	
once a week	
two or three times a week	
almost every day	

10. How much influence do you have on each of the following...

		Check one box in each row.			
		None	Little	Some	A lot
a)	subject matter to be taught				
b)	specific textbooks to be used				
c)	the amount of money to be spent on supplies				
d)	what supplies are purchased				

11. To be good at mathematics at school, how important do you think it is for students to...

		Check one	neck one box in each row.		
		Not important	Somewhat important	Very important	
a)	remember formulas and procedures	🗆			
b)	think in a sequential and procedural manner	🗆			
c)	understand mathematical concepts, principles, and strategies	🗆			
d)	be able to think creatively	🗆			
e)	understand how mathematics is used in the real world	🗆			
f)	be able to provide reasons to support their solutions	🗆			

12. To what extent do you agree or disagree with each of the following statements?

		Check one box in each row.			
		Strongly disagree	Disagree	Agree	Strongly agree
a)	Mathematics is primarily an abstract subject				
b)	Mathematics is primarily a formal way of representing the real world.				
c)	Mathematics is primarily a practical and structure guide for addressing real situations.	ed			
d)	If students are having difficulty, an effective approach is to give them more practice by themselves during the class				
e)	Some students have a natural talent for mathematics and others do not				
f)	More than one representation (picture, concrete material, symbol set, etc.) should be used in teaching a mathematics topic.				
g)	Mathematics should be learned as sets of algorithms or rules that cover all possibilities				
h)	Basic computational skills on the part of the teacher are sufficient for teaching <primary school=""> mathematics</primary>				
i)	A liking for and understanding of students are essential for teaching mathematics.				

13. Indicate your familiarity with each of the following documents:

NRC Note: <Include country-specific appropriate options only.>

		Check one box in each row.			
		No such document	Not familiar	Fairly familiar	Very familiar
a)	<the curriculum="" guide<br="" national="">FOR MATHEMATICS></the>	. 🗆			
b)	<the curriculum="" guide(s)<br="" regional="">FOR MATHEMATICS></the>	. 🗆			
c)	<the curriculum="" guide="" school=""></the>	. 🗆			
d)	<the examination<br="" national="">SPECIFICATIONS></the>	. 🗆			
e)	<the examination<br="" regional="">SPECIFICATIONS></the>	. 🗆			
f)	<the guide<br="" national="" pedagogy="">FOR MATHEMATICS></the>	. 🗆			
g)	<the guide<br="" pedagogy="" regional="">FOR MATHEMATICS></the>	. 🗆			

14. How well prepared do you feel you are to teach...

		Check one box in each row.			
		I do not teach these topics	Not well prepared	Somewhat prepared	Very well prepared
a)	fractions, decimals and percentages?	🗆			
b)	ratios and proportions?	🗆			
c)	measurement – units, instruments, and accuracy?	🗆			
d)	perimeter, area, and volume?	🗆			
e)	geometric figures - definitions and properties?.	🗆			
f)	geometric figures – symmetry, motions and transformations, congruence and similarity	?			
g)	coordinate geometry?	🗆			
h)	algebraic representation?	🗆			
i)	evaluate and perform operations on algebraic expressions?	🗆			
j)	solving linear equations and inequalities?	🗆			
k)	representation and interpretation of data in graphs, charts, and tables?	🗆			
1)	simple probabilities – understanding and calculations?	🗆			

15. What is the highest level of formal education you have completed?

Check one b	oox only.
<did complete="" not="" school="" secondary=""></did>	
<secondary only=""></secondary>	
<ba equivalent="" or=""></ba>	
<ma phd=""></ma>	

16a.	Do you have a <teacher certificate="" training="">?</teacher>		
	Check one box only	Yes 🗆	No 🗆
16b.	How many years of <pre-service teacher="" training=""> have</pre-service>	you had?	
	<i>Please round to the nearest whole number(Write in 0 (zero), if you have not had any teacher training.)</i>		
16c.	If you have had <pre-service teacher="" training="">, did you b secondary school?</pre-service>	egin this t	training in
	Check one box only	Yes 🗆	No 🗆

17. While studying to obtain your <BA or equivalent or teacher training certificate>, what was your major or main area of study?

I do not have a <BA or equivalent or teacher training certificate.>.....

Check one box in each row.

		Yes	No
a)	Mathematics		
b)	Biology		
c)	Physics		
d)	Chemistry		
e)	Education		
f)	Mathematics Education		
g)	Science Education		
h)	Other		

18. If you have a master's degree, what was your major or main area of study?

I do not have a master's degree. \Box (*Check the box and skip to the next question.*)

Check one box in each row.

		Yes	No
a)	Mathematics		
b)	Biology		
c)	Physics		
d)	Chemistry		
e)	Education		
f)	Mathematics Education		
g)	Science Education		
h)	Other		

International Option

19.	Was teaching your first choice as a career when beginning university or teacher education college?		
	Check only one box	Yes 🗆	No 🗆
20.	Would you change to another career if you had the oppo	ortunity?	
	Check only one box	Yes 🗆	No 🗆
21.	Do you think that society appreciates your work?		
	Check only one box	Yes 🗆	No 🗆
22.	Do you think your students appreciate your work?		
	Check only one box	Yes 🗆	No 🗆
23.	Approximately how many books are in your home?		
	(Do not count magazines or newspapers.)		
		Check	one box only.
	none or very few (0-10)		🗆
	enough to fill a shelf (11-25)		🗆
	enough to fill a bookcase (26-100)		🗆
	enough to fill two bookcases (101-200)		🗆
	enough to fill three or more bookcases (more than 200)		🗆

THERE ARE NO QUESTIONS ON THIS PAGE

Section B

1. How many students are in your mathematics class?

9. In planning mathematics lessons, what is your main source of written information when...

NRC Note: <List only country-specific appropriate options.>

Check one box in each row.

		<naial, a="" iai="" regiale="" secificai="" th="" 🚬<=""><th></th></naial,>						
		<na ,="" al="" c="" g="" i="" ic="" ide="" l="" regi=""></na>						
		<sch gia<="" i="" icic="" td=""><td colspan="4"><sch 1="" 1c="" g="" ic="" ide=""></sch></td><td></td><td></td></sch>	<sch 1="" 1c="" g="" ic="" ide=""></sch>					
		Teache, Edii f Te b	k					
		S de Edii fTeb	k					
		Ohe Reice Bk						
a)	deciding which topics to te	ach (goals)						
b)	deciding how to present a t	opic						
c)	selecting problems and exe work in class and homewor	rcises for rk						
d)	selecting problems and app assessment and evaluation	lications for						

10. In your mathematics lessons, how often do you usually ask students to do the following?

Check one box in each row.

		Never or almost never	Some lessons	Most lessons	Every lesson
a)	explain the reasoning behind an idea	. 🗆			
b)	represent and analyze relationships using tables, charts, or graphs	. 🗆			
c)	work on problems for which there is no immediately obvious method of solution	. 🗆			
d)	use computers to solve exercises or problems	. 🗆			
e)	write equations to represent relationships	. 🗆			
f)	practice computational skills	. 🗆			
g)	use graphing calculators to solve exercises or problems	. 🗆			

13. The following list includes the main topics addressed by the TIMSS mathematics test. Check the response that describes when students in your mathematics class have been taught each topic.

If a topic has been taught before this year and also in the current year, check the two boxes that apply. Otherwise, check **one** box in each row.

TaughtTaughtTaught1-5more than 5NotI do

If a topic has been taught before this year and also in the current year, check the two boxes that apply. Otherwise, check **one** box in each row.

c) G	eometry	Taught before this year	Taught 1-5 periods this year	Taught more than 5 periods this year	Not yet taught	I do not know
19)	Cartesian coordinates of points in a plane	🗆				
20)	Coordinates of points on a given straight line	· 🗆				
21)	Simple two dimensional geometry – angles on a straight line, parallel lines, triangles and quadrilaterals	🗆				
22)	Congruence and similarity	🗆				
23)	Symmetry and transformations (reflection and rotation)	🗆				
24)	Visualization of three-dimensional shapes	🗆				
d) Pr	roportionality					
25)	Scales applied to maps and models	🗆				
26)	Concepts of ratio and proportion; ratio and proportion problems	🗆				

14. In your view to what extent do the following limit how you teach your mathematics class?

		Check one box in each row.				
		Not at all	A little	Quite a lot	A great deal	
a)	students with different academic abilities					
b)	students who come from a wide range of backgrounds, (e.g., economic, language)					
c)	students with special needs, (e.g., hearing, vision, speech impairment, physical disabilities, mental or emotional/psychological impairment)					
d)	uninterested students					
e)	disruptive students					
f)	parents interested in their children's learning and progress					
g)	parents uninterested in their children's learning and progress					
h)	shortage of computer hardware					
i)	shortage of computer software					
j)	shortage of other instructional equipment for students' use					
k)	shortage of equipment for your use in demonstrations and other exercises					
l)	inadequate physical facilities					
m)	high student/teacher ratio					
n)	low morale among fellow teachers/administrators					
o)	low morale among students					
p)	threat(s) to personal safety or the safety of students					

16. If you assign mathematics homework, how many minutes of mathematics homework do you usually assign your students?

(Consider the time it would take an average student in your class.)

Check one box.

less than 15 minutes]	
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17. If you assign mathematics homework, how often do you assign each of the following kinds of tasks?

		Check one box in each row.					
		Never	Rarely	Sometimes	Always		
a)	worksheets or workbook						
b)	problem/question sets in textbook						
c)	reading in a textbook or supplementary materials						
d)	writing definitions or other short writing assignment						
e)	small investigation(s) or gathering data						
f)	working individually on long term projects or experiments						
g)	working as a small group on long term projects or experiments						
h)	finding one or more uses of the content covered						
i)	preparing oral reports either individually or as a small group						
j)	keeping a journal						

18. If students are assigned

20. How often do you use the assessment information you gather from students to...

Check one box in each row.

		None	Little	Quite a lot	A great deal
a)	provide students' grades or marks?				
b)	provide feedback to students?				
c)	diagnose students' learning problems?				
d)	report to parents?				
e)	assign students to different programs or tracks?				
f)	plan for future lessons?				

THANK YOU for the thought, time, and effort you have put into completing this questionnaire.