



200



# General Directions

2003,  $\frac{1}{2}$  of the total number of questions are multiple choice,  $\frac{1}{4}$  are short-answer, and  $\frac{1}{4}$  are long-answer. The number of questions is 50. The test is divided into two sections: the first section contains 25 questions, and the second section contains 25 questions. The test is administered in a classroom setting. The test is administered in a classroom setting. The test is administered in a classroom setting.

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<Content>

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## Background Information

1 \_\_\_\_\_

How old are you?

Full name: \_\_\_\_\_

6

During your <post-secondary> education, what was your major or main area(s) of study?

Fill one in

Yes No

- ) \_\_\_\_\_
- ) Eto \_\_\_\_\_
- ) \_\_\_\_\_
- ) Eto \_\_\_\_\_
- ) Eto \_\_\_\_\_
- ) \_\_\_\_\_

7

What requirements did you have to satisfy in order to become a mathematics teacher at <grade 8>?

Fill one in

Yes No


- ) Co. < CED 5A, \_\_\_\_\_ > -----○-----○
- ) Co. \_\_\_\_\_ -----○-----○
- ) Co. \_\_\_\_\_ -----○-----○
- ) Co. \_\_\_\_\_ -----○-----○
- ) \_\_\_\_\_ -----○-----○

8

A. Do you have a teaching license or certificate?

Yes No

Fill one in -----○-----○

If No, \_\_\_\_\_ 9 

B. What type of license or certificate do you hold?

Fill one in

- < \_\_\_\_\_ > -----○
- < \_\_\_\_\_ > -----○
- < \_\_\_\_\_ > -----○
- \_\_\_\_\_ -----○
- ( \_\_\_\_\_ )



10

A. In one typical calendar week from Monday to Sunday, what is the total number of single periods for which you are formally

11

Outside the formal school day, approximately how many hours per week do you normally spend on each of these activities? Do not include the time already accounted for in Question 10. Please round to the nearest whole number.

W r, b f r

) G ..... W

) .....

) A ..... f

) .....

12 

15

Thinking about your CURRENT school, indicate the extent to which you agree or disagree with each of the following statements.

Full one of a

Disagree a lot

Disagree

Agree

Agree a lot

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_

16

How would you characterize each of the following within your school?

Full one of a

Very low

Low

Medium

High

Very high

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_



17

How many students are in the TIMSS class?

\_\_\_\_\_ *W r, b f, d*

18

How many minutes per week do you teach mathematics to the TIMSS class?

\_\_\_\_\_ *W r, b f, d*

19

A. Do you use a textbook(s) in teaching mathematics to the TIMSS class?

\_\_\_\_\_ *No*  
\_\_\_\_\_ *Yes*  
*F, one* \_\_\_\_\_  \_\_\_\_\_

*If No, a*

**20**



B. How do you use a textbook(s) in teaching mathematics to the TIMSS class?

*F, one* \_\_\_\_\_   
*A* \_\_\_\_\_   
*A* \_\_\_\_\_

20

In a typical week of mathematics lessons for the TIMSS class, what percentage of time do students spend on each of the following activities?

- T a, W r, d add 100%*
- ) \_\_\_\_\_ %
  - ) \_\_\_\_\_ %
  - ) \_\_\_\_\_ %
  - ) \_\_\_\_\_ %
  - ) \_\_\_\_\_ %
  - ) \_\_\_\_\_ %

# Teaching Mathematics to the TIMSS Class

21

In teaching mathematics to the students in the TIMSS class, how often do you usually ask them to do the following?

Frequency

Every or almost every lesson				
About half the lessons				
Some lessons				
Never				

1) *ask them to explain their answers*

2) *ask them to solve problems*

3) *ask them to work in groups*

4) *ask them to discuss their answers*

5) *ask them to write their answers*

By the end of this school year, approximately what percentage of teaching time will you have spent during this school year on each of the following mathematics content areas for the TIMSS class?

Total should add 100%

- 1)  Algebra (e.g., equations, inequalities, functions, graphs, exponents, radicals, and complex numbers) ----- %
- 2)  Geometry (e.g., area, perimeter, volume, surface area, congruence, similarity, and transformations) ----- %
- 3)  Arithmetic (e.g., addition, subtraction, multiplication, division, and fractions) ----- %
- 4)  Data (e.g., data collection, data analysis, and probability) ----- %

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when students in the TIMSS class have been taught each topic. If a topic was taught half this year and half before this year, please choose "Mostly taught this year."

Fill one in

Not yet taught or just introduced

Mostly taught this year

Mostly taught before this year

A. Number

- 1) Addition, subtraction, multiplication, and division of whole numbers -----○---○---○
- 2) Cost, perimeter, area, volume, mass, length, temperature, and time -----○---○---○
- 3) Comparison of numbers, addition, subtraction, multiplication, and division -----○---○---○
- 4) Decimals, addition, subtraction, multiplication, and division of decimals -----○---○---○
- 5) Fractions, addition, subtraction, multiplication, and division of fractions -----○---○---○
- 6) Cost, perimeter, area, and volume -----○---○---○
- 7) Cost, perimeter, area, and volume -----○---○---○
- 8) Fractions, addition, subtraction, multiplication, and division of fractions (addition, subtraction, multiplication, and division of fractions, and comparison of fractions) -----○---○---○

24 continued

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when students in the TIMSS class have been taught each topic. If a topic was taught half this year and half before this year, please choose "Mostly taught this year."

Fill one of a

	Not yet taught or just introduced	Mostly taught this year	Mostly taught before this year

B. Algebra

- 1) *[Faint, illegible text]* -----○--○--○
- 2) *[Faint, illegible text]* -----○--○--○
- 3) *[Faint, illegible text]* -----○--○--○
- 4) *[Faint, illegible text]* -----○--○--○
- 5) *[Faint, illegible text]* -----○--○--○
- 6) *[Faint, illegible text]* -----○--○--○

C. Measurement

- 1) *[Faint, illegible text]* -----○--○--○
- 2) *[Faint, illegible text]* -----○--○--○
- 3) *[Faint, illegible text]* -----○--○--○
- 4) *[Faint, illegible text]* -----○--○--○
- 5) *[Faint, illegible text]* -----○--○--○
- 6) *[Faint, illegible text]* -----○--○--○
- 7) *[Faint, illegible text]* -----○--○--○
- 8) *[Faint, illegible text]* -----○--○--○



24 continued

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when students in the TIMSS class have been taught each topic. If a topic was taught half this year and half before this year, please choose "Mostly taught this year."

Fill one of a

Not yet taught or just introduced

Mostly taught this year

Mostly taught before this year

D. Geometry

- ) Area - triangles, rectangles, squares, circles, trapezoids, etc. ----- ○ --- ○ --- ○
- ) Volume - rectangular solids, cylinders, cones, spheres, etc. ----- ○ --- ○ --- ○
- ) Length - perimeter, area, surface area, volume, etc. ----- ○ --- ○ --- ○
- ) Length - measurement of length, distance, etc. ----- ○ --- ○ --- ○
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E. Data

| | |

**Calculators and Computers  
in the TIMSS Class**



30

A. Do students in the TIMSS class have computers available to use during their mathematics lessons?

No  
|  
Yes

F<sub>1</sub> **one** ..... ○ --- ○

If No, a **32** 

B. Do any of the computers have access to the Internet?

No  
|  
Yes

F<sub>2</sub> **one** ..... ○ --- ○

31

In teaching mathematics to the TIMSS class, how often do you have students use a computer for the following activities?

F<sub>3</sub> **one** ..... a

Never  
|  
Some lessons  
|  
About half the lessons  
|  
Every or almost every lesson

) ..... ○ --- ○ --- ○ --- ○

) ..... ○ --- ○ --- ○ --- ○

) ..... ○ --- ○ --- ○ --- ○

) ..... ○ --- ○ --- ○ --- ○



# Homework

**32**

Do you assign mathematics homework to the TIMSS class?

Yes  No

F... one . . . . .

If No, . . . . . **37**

**33**

How often do you usually assign mathematics homework to the TIMSS class?

F... one . . . . .

Every day

At least once a week

Once a month

**34**

When you assign mathematics homework to the TIMSS class, about how many minutes do you usually assign? (Consider the time it would take an average student in your class.)

F... one . . . . .

0-15 minutes

15-30 minutes

31-60 minutes

61-90 minutes

More than 90 minutes

**35**

How often do you assign the following kinds of mathematics homework to the TIMSS class?

F... one . . . . .

Never or almost never

Sometimes

Always or almost always

1) Do you assign...

2) Give...

3) F...

**36**

How often do you do the following with the mathematics homework assignments?

F... one . . . . .

Never or almost never

Sometimes

Always or almost always

1) ...

2) ...

3) ...

4) ...

5) ...

39


How often do you include the following types of questions in your mathematics tests or examinations?


From one to five

Never or almost never

Sometimes

Always or almost always

) 

) 

# **Thank You**

**for completing  
this questionnaire**

