Student Questionnaire

Identification Label

Student ID: ____________________________

Student Name: ____________________________

Trends in International Mathematics and Science Study
TIMSS 2007

Student Questionnaire

<Grade 8>

<TIMSS National Research Center Name>
<Address>

International Association for the Evaluation of Educational Achievement
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General Directions

In this questionnaire, you will find questions about yourself. Some questions ask for facts while other questions ask for your opinions.

Read each question carefully and answer as accurately as possible. You may ask for help if you do not understand something or are not sure how to respond.

Each question is followed by a number of answers. Shade in the circle next to the answer of your choice as shown in Examples 1, 2, and 3.

Example 1

Do you go to school?

Fill in one circle only

Yes .......................... ●
No ............................. ②

Example 2

How often do you do these things?

Fill in one circle for each line

<table>
<thead>
<tr>
<th></th>
<th>Every day</th>
<th>At least once a week</th>
<th>Once or twice a month</th>
<th>A few times a year</th>
<th>Never</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) I listen to music</td>
<td>①</td>
<td>②</td>
<td>③</td>
<td>④</td>
<td>⑤</td>
</tr>
<tr>
<td>b) I talk with my friends</td>
<td>●</td>
<td>②</td>
<td>③</td>
<td>④</td>
<td>⑤</td>
</tr>
<tr>
<td>c) I play sports</td>
<td>①</td>
<td>●</td>
<td>③</td>
<td>④</td>
<td>⑤</td>
</tr>
</tbody>
</table>
Example 3

Indicate how much you agree with each of these statements.

*Fill in one circle for each line*

<table>
<thead>
<tr>
<th>Agree a lot</th>
<th>Agree a little</th>
<th>Disagree a little</th>
<th>Disagree a lot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

a) Watching movies is fun

b) I like eating ice cream

Read each question carefully, and pick the answer you think is best. Fill in the circle next to or below your answer. If you decide to change an answer to a question, put an “x” over your first choice, and then fill in the circle for your new choice. Ask for help if you do not understand something or are not sure how to answer.

Thank you for your time, effort, and thought in completing this questionnaire.
About You

1

When were you born?

A. Fill in the circle next to the year you were born

Year
1989 - O
1990 - O
1991 - O
1992 - O
1993 - O
1994 - O
1995 - O
1996 - O
Other - O

B. Fill in the circle next to the month you were born

Month
January - O
February - O
March - O
April - O
May - O
June - O
July - O
August - O
September - O
October - O
November - O
December - O

2

Are you a girl or a boy?

Fill in one circle only

Girl- ----------------------------- ①
Boy- ----------------------------- ②
3

How often do you speak <language of test> at home?

*Fill in one circle only*

1. Always (always)  
2. Almost always  
3. Sometimes  
4. Never

4

About how many books are there in your home? (Do not count magazines, newspapers, or your school books.)

*Fill in one circle only*

1. None or very few (0-10 books)  
2. Enough to fill one shelf (11-25 books)  
3. Enough to fill one bookcase (26-100 books)  
4. Enough to fill two bookcases (101-200 books)  
5. Enough to fill three or more bookcases (more than 200 books)
5

Do you have any of these things at your home?

*Fill in one circle for each line*

a) Calculator
   1    2

b) Computer (do not include PlayStation®, GameCube®, Xbox®,
or other TV/video game computers)
   1    2

c) Study desk/table for your use
   1    2

d) Dictionary
   1    2

e) Internet connection
   1    2

f) <country-specific>
   1    2

g) <country-specific>
   1    2

h) <country-specific>
   1    2

i) <country-specific>
   1    2
A. What is the highest level of education completed by your mother (or stepmother or female guardian)?

_Fill in one circle only_

Some <ISCED Level 1 or 2> or did not go to school \(1\)

<ISCED 2> \(2\)

<ISCED 3> \(3\)

<ISCED 4> \(4\)

<ISCED 5B> \(5\)

<ISCED 5A, first degree> \(6\)

Beyond <ISCED 5A, first degree> \(7\)

I don't know \(8\)

B. What is the highest level of education completed by your father (or stepfather or male guardian)?

_Fill in one circle only_

Some <ISCED Level 1 or 2> or did not go to school \(1\)

<ISCED 2> \(2\)

<ISCED 3> \(3\)

<ISCED 4> \(4\)

<ISCED 5B> \(5\)

<ISCED 5A, first degree> \(6\)

Beyond <ISCED 5A, first degree> \(7\)

I don't know \(8\)
About You (Continued)

7

How far in school do you expect to go?

Fill in one circle only

Finish <ISCED 3>  
Finish <ISCED 4>  
Finish <ISCED 5B>  
Finish <ISCED 5A, first degree>  
Beyond <ISCED 5A, first degree>  
I don’t know  

1  
2  
3  
4  
5  
6
# Mathematics in School

How much do you agree with these statements about learning mathematics?

*Fill in one circle for each line*

<table>
<thead>
<tr>
<th>Agree a lot</th>
<th>Agree a little</th>
<th>Disagree a little</th>
<th>Disagree a lot</th>
</tr>
</thead>
</table>

a) I usually do well in mathematics  

b) I would like to take more mathematics in school  

c) Mathematics is more difficult for me than for many of my classmates  

d) I enjoy learning mathematics  

e) Mathematics is not one of my strengths  

f) I learn things quickly in mathematics  

g) Mathematics is boring  

h) I like mathematics
How much do you agree with these statements about mathematics?

*Fill in one circle for each line*

<table>
<thead>
<tr>
<th>Agree a lot</th>
<th>Agree a little</th>
<th>Disagree a little</th>
<th>Disagree a lot</th>
</tr>
</thead>
</table>

a) I think learning mathematics will help me in my daily life
   [ ] 1 [ ] 2 [ ] 3 [ ] 4

b) I need mathematics to learn other school subjects
   [ ] 1 [ ] 2 [ ] 3 [ ] 4

c) I need to do well in mathematics to get into the <university> of my choice
   [ ] 1 [ ] 2 [ ] 3 [ ] 4

d) I need to do well in mathematics to get the job I want
   [ ] 1 [ ] 2 [ ] 3 [ ] 4
How often do you do these things in your mathematics lessons?

<table>
<thead>
<tr>
<th></th>
<th>Every or almost every lesson</th>
<th>About half the lessons</th>
<th>Some lessons</th>
<th>Never</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) We practice adding, subtracting, multiplying, and dividing without using a calculator</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>b) We work on fractions and decimals</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>c) We solve problems about geometric shapes, lines and angles</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>d) We interpret data in tables, charts, or graphs</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>e) We write equations and functions to represent relationships</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>f) We memorize formulas and procedures</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>g) We explain our answers</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>h) We relate what we are learning in mathematics to our daily lives</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>i) We decide on our own procedures for solving complex problems</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>j) We review our homework</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>k) We listen to the teacher give a lecture-style presentation</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>l) We work problems on our own</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>m) We work together in small groups</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>n) We begin our homework in class</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>o) We have a quiz or test</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>p) We use calculators</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>q) We use computers</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>
# Science in School

11

How much do you agree with these statements about learning science?

*Fill in one circle for each line*

<table>
<thead>
<tr>
<th>Agree a lot</th>
<th>Agree a little</th>
<th>Disagree a little</th>
<th>Disagree a lot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

a) I usually do well in science

b) I would like to take more science in school

c) Science is more difficult for me than for many of my classmates

d) I enjoy learning science

e) Science is not one of my strengths

f) I learn things quickly in science

g) Science is boring

h) I like science
How much do you agree with these statements about science?

*Fill in one circle for each line*

<table>
<thead>
<tr>
<th>Agree a lot</th>
<th>Agree a little</th>
<th>Disagree a little</th>
<th>Disagree a lot</th>
</tr>
</thead>
</table>

a) I think learning science will help me in my daily life  
   [Circle] 1 [Circle] 2 [Circle] 3 [Circle] 4

b) I need science to learn other school subjects  
   [Circle] 1 [Circle] 2 [Circle] 3 [Circle] 4

c) I need to do well in science to get into the <university> of my choice  
   [Circle] 1 [Circle] 2 [Circle] 3 [Circle] 4

d) I need to do well in science to get the job I want  
   [Circle] 1 [Circle] 2 [Circle] 3 [Circle] 4
How often do you do these things in your science lessons?

*Fill in one circle for each line*

<table>
<thead>
<tr>
<th></th>
<th>Every or almost every lesson</th>
<th>About half the lessons</th>
<th>Some lessons</th>
<th>Never</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) We make observations and describe what we see</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>b) We watch the teacher demonstrate an experiment or investigation</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>c) We design or plan an experiment or investigation</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>d) We conduct an experiment or investigation</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>e) We work in small groups on an experiment or investigation</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>f) We read our science textbooks and other resource materials</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>g) We memorize science facts and principles</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>h) We use scientific formulas and laws to solve problems</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>i) We give explanations about what we are studying</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>j) We relate what we are learning in science to our daily lives</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
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<tr>
<td>l) We listen to the teacher give a lecture-style presentation</td>
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<td>4</td>
</tr>
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<td>m) We work problems on our own</td>
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<td>3</td>
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</tr>
<tr>
<td>n) We begin our homework in class</td>
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<td>3</td>
<td>4</td>
</tr>
<tr>
<td>o) We have a quiz or test</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>p) We use computers</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>
A. Do you ever use a computer? (Do not include PlayStation®, GameCube®, XBox®, or other TV/video game computers.)

Yes  No

Fill in one circle only

\[\text{Yes} \quad \text{No}\]

\[\begin{array}{c}
1 \\
2
\end{array}\]

If No, please go to question 15

B. Where do you use a computer?

Fill in one circle for each line

Yes  No

a) At home

\[\begin{array}{c}
1 \\
2
\end{array}\]

b) At school

\[\begin{array}{c}
1 \\
2
\end{array}\]

c) Elsewhere (e.g., public library, friend's home, Internet café)

\[\begin{array}{c}
1 \\
2
\end{array}\]

C. How often do you use a computer for your schoolwork (in and out of school)?

Fill in one circle for each line

Every day  At least once a week  Once or twice a month  A few times a year  Never

\[\begin{array}{c}
\downarrow \\
\downarrow \\
\downarrow \\
\downarrow \\
\downarrow \end{array}\]

a) In mathematics

\[\begin{array}{c}
1 \\
2 \\
3 \\
4 \\
5
\end{array}\]

b) In science

\[\begin{array}{c}
1 \\
2 \\
3 \\
4 \\
5
\end{array}\]
## Your School

### 15

How much do you agree with these statements about your school?

*Fill in one circle for each line*

<table>
<thead>
<tr>
<th>Agree a lot</th>
<th>Agree a little</th>
<th>Disagree a little</th>
<th>Disagree a lot</th>
</tr>
</thead>
</table>

a) I like being in school  

b) I think that students in my school try to do their best  

c) I think that teachers in my school want students to do their best  

### 16

**In school, did any of these things happen during the last month?**

*Fill in one circle for each line*

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

a) Something of mine was stolen  

b) I was hit or hurt by other student(s) (e.g., shoving, hitting, kicking)  

c) I was made to do things I didn't want to do by other students  

d) I was made fun of or called names  

e) I was left out of activities by other students  

Things You Do Outside of School

On a normal school day, how much time do you spend before or after school doing each of these things?

*Fill in one circle for each line*

<table>
<thead>
<tr>
<th>Activity</th>
<th>No time</th>
<th>Less than 1 hour</th>
<th>1-2 hours</th>
<th>More than 2 but less than 4 hours</th>
<th>4 or more hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) I watch television and videos</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>b) I play computer games</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>c) I play or talk with friends</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>d) I do jobs at home</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>e) I work at a paid job</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>f) I play sports</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>g) I read a book for enjoyment</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>h) I use the Internet</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>i) I do homework</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>
Homework

18

A. How often does your teacher give you homework in mathematics?

Fill in one circle only

Every day -------------------------- ①
3 or 4 times a week------------------- ②
1 or 2 times a week ----------------- ③
Less than once a week --------------- ④
Never ----------------------------- ⑤

If Never, please go to question 19

B. When your teacher gives you mathematics homework, about how many minutes do you usually spend on your homework?

Fill in one circle only

Zero minutes ------------------------- ①
1 - 15 minutes ---------------------- ②
16–30 minutes ---------------------- ③
31–60 minutes ---------------------- ④
61–90 minutes ---------------------- ⑤
More than 90 minutes --------------- ⑥
A. How often does your teacher give you homework in science?  
*Fill in one circle only*

- Every day [ ]
- 3 or 4 times a week [ ]
- 1 or 2 times a week [ ]
- Less than once a week [ ]
- Never [ ]

*If Never, please go to question 20*

B. When your teacher gives you science homework, about how many minutes do you usually spend on your homework?  
*Fill in one circle only*

- Zero minutes [ ]
- 1 - 15 minutes [ ]
- 16–30 minutes [ ]
- 31–60 minutes [ ]
- 61–90 minutes [ ]
- More than 90 minutes [ ]
More About You

20

A. Was your mother (or stepmother or female guardian) born in <country>?

Yes   No

Fill in one circle only  

1   2

B. Was your father (or stepfather or male guardian) born in <country>?

Yes   No

Fill in one circle only  

1   2

21

A. Were you born in <country>?

Yes   No

Fill in one circle only  

1   2

If Yes, you have completed the questionnaire

B. If you were not born in <country>, how old were you when you came to <country>?

Fill in one circle only

- Older than 10 years old 1
- 5 to 10 years old 2
- Younger than 5 years old 3
Thank You
for completing
this questionnaire
Student Questionnaire

<Grade 8>