



Place Label Here

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

Student ID boxes and Participation Status box

Student Questionnaire

Grade 8

National Center for Education Statistics
U.S. Department of Education
Potomac Center Plaza (PCP), 550 12th St., SW, 4th floor
Washington, DC 20202
USA

The National Center for Education Statistics (NCES), within the U.S. Department of Education, conducts TIMSS in the United States as authorized by the Education Sciences Reform Act of 2002 (ESRA 2002, 20 U.S.C., §9543). All of the information you provide may be used only for statistical purposes and may not be disclosed, or used, in identifiable form for any other purpose except as required by law (20 U.S.C., §9573 and 6 U.S.C. §151).

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless such collection displays a valid OMB control number. The valid OMB control number for this voluntary information collection is 1850-0695. The time required to complete this information collection is estimated to average 30 minutes per student, including the time to review instructions and complete and review the information collection. If you have any comments or concerns regarding the accuracy of the time estimate(s), suggestions for improving the form, or questions about the status of your individual submission of this form, write directly to: Trends in International Mathematics and Science Study (TIMSS), National Center for Education Statistics, Potomac Center Plaza (PCP), 550 12th St., SW, 4th floor, Washington, DC 20202.

OMB No. 1850-0695, Approval Expires 01/31/2021.

© IEA, 2018

200301-001:321 Printed in the USA by Pearson ISD19885

TIMSS & PIRLS
International Study Center
Lynch School of Education
BOSTON COLLEGE

Directions

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

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

Example 1

Do you go to school?

Fill in **one** oval only.

Yes --

No --

Example 2

How often do you do these things?

Fill in only **one** oval for each row.

	Every day or almost every day	Once or twice a week	Once or twice a month	Never or almost never
a) I talk with my friends	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) I play sports	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I ride a skateboard	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Example 3

What do you think? Tell how much you agree with these statements.

Fill in only **one** oval for each row.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
	↓	↓	↓	↓
a) Watching movies is fun	①	●	③	④
b) I like eating ice cream	●	②	③	④
c) I do not like waking up early	①	②	●	④
d) I enjoy doing chores	①	②	③	●

- Read each question carefully, and pick the answer you think is best.
- Fill in the oval next to or under your answer.
- If you decide to change your answer, completely erase your first choice. Then, fill in the oval next to or under your new answer.
- Ask for help if you do not understand something or are not sure how to answer.

About You

1 _____

A. Are you a girl or a boy?

*Fill in **one** oval only.*

Girl -- ①

Boy -- ②

B. Are you Hispanic or Latino?

*Fill in **one** oval only.*

Yes, I am Hispanic or Latino -- ①

No, I am not Hispanic or Latino -- ②

C. Which of the following best describes you?

*Fill in oval(s) for **all** that apply.*

White -- ①

Black or African American -- ①

Asian -- ①

American Indian or Alaska Native -- ①

Native Hawaiian or other
Pacific Islander -- ①

2

When were you born?

Fill in the ovals next to the month and year you were born.

a) Month

January --- (A)

February --- (B)

March --- (C)

April --- (D)

May --- (E)

June --- (F)

July --- (G)

August --- (H)

September --- (I)

October --- (J)

November --- (K)

December --- (L)

b) Year

2001 --- (1)

2002 --- (2)

2003 --- (3)

2004 --- (4)

2005 --- (5)

2006 --- (6)

2007 --- (7)

2008 --- (8)

2009 --- (9)

Other --- (0)

3

A. How often do you speak English at home?

*Fill in **one** oval only.*

Always -- ① *If **Always**, please go to question 4* →

Almost always -- ②

Sometimes -- ③

Never -- ④

*If **Almost always, Sometimes, Never**,
please go to question 3B* ↴

B. What language do you speak at home (other than English)?

*Fill in **one** oval only.*

Spanish -- ①

Other -- ② Please specify _____

4

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

*Fill in **one** oval only.*

None or very few
(0–10 books) -- ①

Enough to fill one shelf
(11–25 books) -- ②

Enough to fill one bookcase
(26–100 books) -- ③

Enough to fill two bookcases
(101–200 books) -- ④

Enough to fill three or more bookcases
(more than 200) -- ⑤

5

Do you have any of these things at your home?

*Fill in only **one** oval for each row.*

- | | Yes | No |
|--|-----|----|
| a) A computer or tablet | ① | ② |
| b) Study desk/table for your use | ① | ② |
| c) Your own room | ① | ② |
| d) Internet connection | ① | ② |
| e) Your own cell phone | ① | ② |
| f) A gaming system (e.g., PlayStation,
Wii, Xbox) | ① | ② |
| g) VCR, DVD, or Blu-ray player | ① | ② |

The following questions are about your Parent/Guardian A and Parent/Guardian B. If you have only one parent/guardian, answer for Parent/Guardian A. If you have two parents/guardians, choose one for Parent/Guardian A and the other for Parent/Guardian B.

6

What is the highest level of education completed by your parents/guardians?

A. Parent/Guardian A

*Fill in **one** oval only.*

- Less than high school -- ①
- Some high school -- ②
- High school graduate -- ③
- Associate's degree (2-year college program) -- ④
- Bachelor's degree (4-year college program) -- ⑤
- Master's degree or professional degree (MD, DDS, lawyer, minister) -- ⑥
- Doctorate (Ph.D., or Ed.D.) -- ⑦
- I don't know -- ⑧
- Not applicable -- ⑨

6 (continued)

What is the highest level of education completed by your parents/guardians?

B. Parent/Guardian B

*Fill in **one** oval only.*

Less than high school -- ①

Some high school -- ②

High school graduate -- ③

Associate's degree (2-year college program) -- ④

Bachelor's degree (4-year college program) -- ⑤

Master's degree or professional degree (MD, DDS, lawyer, minister) -- ⑥

Doctorate (Ph.D., or Ed.D.) -- ⑦

I don't know -- ⑧

Not applicable -- ⑨

7

How far in your education do you expect to go?

*Fill in **one** oval only.*

Finish middle school -- ①

Finish high school -- ②

Finish Associate's degree
(2-year college program) -- ③

Finish Bachelor's degree
(4-year college program) -- ④

Finish Master's degree or
professional degree (MD,
DDS, lawyer, minister) -- ⑤

Finish Doctorate (Ph.D., Ed.D.) -- ⑥

8

Were your parents/guardians born in the United States? (“United States” includes the 50 states, its territories, the District of Columbia, and U.S. military bases abroad.)

A. Parent/Guardian A

*Fill in **one** oval only.*

Yes -- ①

No -- ②

I don't know -- ③

Not applicable -- ④

B. Parent/Guardian B

*Fill in **one** oval only.*

Yes -- ①

No -- ②

I don't know -- ③

Not applicable -- ④

9

A. Were you born in the United States?

*Fill in **one** oval only.*

Yes -- ①

(If Yes, go to question 10)

No -- ②

If No,

B. If you were not born in the United States, how old were you when you came to the United States?

*Fill in **one** oval only.*

Older than 10 years old -- ①

5 to 10 years old -- ②

Younger than 5 years old -- ③

10

The following questions ask about activities you do outside of school.

Fill in only **one** oval for each row.

- | | Yes | No |
|---|--------|--------|
| a) Do you play on a sports team outside of school? | ↓
① | ↓
② |
| b) Do you often play a musical instrument outside of school? | ① | ② |
| c) Are you studying something in a class outside of school? | ① | ② |
| d) Do you belong to a club outside of school (like Boy/Girl Scouts, 4-H, or Boys and Girls Club)? | ① | ② |

11

In this school year, are you preparing for or have you participated in any of the following activities?

Fill in only **one** oval for each row.

- | | Yes | No |
|------------------------------|--------|--------|
| a) Science fair | ↓
① | ↓
② |
| b) Science club | ① | ② |
| c) Science competition | ① | ② |

12

A. About how often are you absent from school?

Fill in **one** oval only.

- Once a week -- ①
- Once every two weeks -- ②
- Once a month -- ③
- Once every two months -- ④
- Never or almost never -- ⑤

B. How many days were you absent from school in the last month?

Fill in **one** oval only.

- None -- ①
- 1 or 2 days -- ②
- 3 or 4 days -- ③
- 5 to 10 days -- ④
- More than 10 days -- ⑤

13

Have you ever repeated a grade?

Fill in only **one** oval for each row.

- | | Yes | No |
|--|-----|----|
| a) In elementary school | ① | ② |
| b) In middle or junior high school | ① | ② |

14

How often do you feel this way when you arrive at school?

Fill in only **one** oval for each row.

- | | Every
day | Almost
every day | Sometimes | Never |
|------------------------|--------------|---------------------|-----------|-------|
| a) I feel tired | ① | ② | ③ | ④ |
| b) I feel hungry | ① | ② | ③ | ④ |

15

Do you use the Internet to do any of the following tasks for schoolwork (including classroom tasks, homework, studying outside of class)?

Fill in only **one** oval for each row.

- | | Yes | No |
|--|-----|----|
| a) Access the textbook or other course materials | ① | ② |
| b) Access assignments posted online by my teacher | ① | ② |
| c) Collaborate with classmates on assignments or projects | ① | ② |
| d) Communicate with the teacher | ① | ② |
| e) Find information, articles, or tutorials to aid in understanding mathematics or science | ① | ② |
| f) Access learning games or activities related to mathematics or science .. | ① | ② |

Your School

16

What do you think about your school? Tell how much you agree with these statements.

Fill in only **one** oval for each row.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I like being in school	Ⓐ	Ⓑ	Ⓒ	Ⓓ
b) I feel safe when I am at school	Ⓐ	Ⓑ	Ⓒ	Ⓓ
c) I feel like I belong at this school	Ⓐ	Ⓑ	Ⓒ	Ⓓ
d) Teachers at my school are fair to me	Ⓐ	Ⓑ	Ⓒ	Ⓓ
e) I am proud to go to this school	Ⓐ	Ⓑ	Ⓒ	Ⓓ

17

During this school year, how often have other students from your school done any of the following things to you (including through texting or social media)?

*Fill in only **one** oval for each row.*

	At least once a week	Once or twice a month	A few times a year	Never
a) Said mean things about my physical appearance (e.g., my hair, my size)	↓ ①	↓ ②	↓ ③	↓ ④
b) Spread lies about me	①	②	③	④
c) Shared my secrets with others	①	②	③	④
d) Refused to talk to me	①	②	③	④
e) Insulted a member of my family	①	②	③	④
f) Stole something from me	①	②	③	④
g) Made me do things I didn't want to do	①	②	③	④
h) Sent me nasty or hurtful messages online	①	②	③	④
i) Shared nasty or hurtful things about me online	①	②	③	④
j) Shared embarrassing photos of me	①	②	③	④
k) Threatened me	①	②	③	④
l) Physically hurt me	①	②	③	④
m) Excluded me from their group (e.g., parties, messaging)	①	②	③	④
n) Damaged something of mine on purpose	①	②	③	④

Mathematics in School

18

In mathematics lessons, how often do you work problems on your own?

*Fill in **one** oval only.*

Every or almost every lesson-- ①

About half the lessons-- ②

Some lessons-- ③

Never-- ④

19

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

Fill in only **one** oval for each row.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I enjoy learning mathematics -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) I wish I did not have to study mathematics -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Mathematics is boring -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I learn many interesting things in mathematics -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) I like mathematics -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) I like any schoolwork that involves numbers -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) I like to solve mathematics problems -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) I look forward to mathematics class -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) Mathematics is one of my favorite subjects -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

20

How much do you agree with these statements about your mathematics lessons?

Fill in only **one** oval for each row.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I know what my teacher expects me to do	Ⓐ	Ⓑ	Ⓒ	Ⓓ
b) My teacher is easy to understand ..	Ⓐ	Ⓑ	Ⓒ	Ⓓ
c) My teacher has clear answers to my questions	Ⓐ	Ⓑ	Ⓒ	Ⓓ
d) My teacher is good at explaining mathematics	Ⓐ	Ⓑ	Ⓒ	Ⓓ
e) My teacher does a variety of things to help us learn	Ⓐ	Ⓑ	Ⓒ	Ⓓ
f) My teacher links new lessons to what I already know	Ⓐ	Ⓑ	Ⓒ	Ⓓ
g) My teacher explains a topic again when we don't understand	Ⓐ	Ⓑ	Ⓒ	Ⓓ

21

How often do these things happen in your mathematics lessons?

Fill in only **one** oval for each row.

	Every or almost every lesson	About half the lessons	Some lessons	Never
a) Students don't listen to what the teacher says	①	②	③	④
b) There is disruptive noise	①	②	③	④
c) It is too disorderly for students to work well	①	②	③	④
d) My teacher has to wait a long time for students to quiet down	①	②	③	④
e) Students interrupt the teacher	①	②	③	④
f) My teacher has to keep telling us to follow the classroom rules	①	②	③	④

22

How much do you agree with these statements about mathematics?

Fill in only **one** oval for each row.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I usually do well in mathematics ---	Ⓐ	Ⓑ	Ⓒ	Ⓓ
b) Mathematics is more difficult for me than for many of my classmates -----	Ⓐ	Ⓑ	Ⓒ	Ⓓ
c) Mathematics is not one of my strengths -----	Ⓐ	Ⓑ	Ⓒ	Ⓓ
d) I learn things quickly in mathematics -----	Ⓐ	Ⓑ	Ⓒ	Ⓓ
e) Mathematics makes me nervous -----	Ⓐ	Ⓑ	Ⓒ	Ⓓ
f) I am good at working out difficult mathematics problems -----	Ⓐ	Ⓑ	Ⓒ	Ⓓ
g) My teacher tells me I am good at mathematics -----	Ⓐ	Ⓑ	Ⓒ	Ⓓ
h) Mathematics is harder for me than any other subject -----	Ⓐ	Ⓑ	Ⓒ	Ⓓ
i) Mathematics makes me confused -----	Ⓐ	Ⓑ	Ⓒ	Ⓓ

23

How much do you agree with these statements about mathematics?

Fill in only **one** oval for each row.

- | | Agree
a lot | Agree
a little | Disagree
a little | Disagree
a lot |
|--|----------------|-------------------|----------------------|-------------------|
| 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 college or 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 |
| e) I would like a job that involves using mathematics | ① | ② | ③ | ④ |
| f) It is important to learn about mathematics to get ahead in the world | ① | ② | ③ | ④ |
| g) Learning mathematics will give me more job opportunities when I am an adult | ① | ② | ③ | ④ |
| h) My parents think that it is important that I do well in mathematics | ① | ② | ③ | ④ |
| i) It is important to do well in mathematics | ① | ② | ③ | ④ |

Science in School

24

In science lessons, how often does your teacher ask you to conduct science experiments?

*Fill in **one** oval only.*

At least once a week -- ①

Once or twice a month -- ②

A few times a year -- ③

Never -- ④

25

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

Fill in only **one** oval for each row.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I enjoy learning science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) I wish I did not have to study science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Science is boring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I learn many interesting things in science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) I like science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) I look forward to learning science in school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Science teaches me how things in the world work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) I like to conduct science experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) Science is one of my favorite subjects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

26

How much do you agree with these statements about your science lessons?

Fill in only **one** oval for each row.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I know what my teacher expects me to do	<input type="radio"/> ①	<input type="radio"/> ②	<input type="radio"/> ③	<input type="radio"/> ④
b) My teacher is easy to understand ..	<input type="radio"/> ①	<input type="radio"/> ②	<input type="radio"/> ③	<input type="radio"/> ④
c) My teacher has clear answers to my questions	<input type="radio"/> ①	<input type="radio"/> ②	<input type="radio"/> ③	<input type="radio"/> ④
d) My teacher is good at explaining science	<input type="radio"/> ①	<input type="radio"/> ②	<input type="radio"/> ③	<input type="radio"/> ④
e) My teacher does a variety of things to help us learn	<input type="radio"/> ①	<input type="radio"/> ②	<input type="radio"/> ③	<input type="radio"/> ④
f) My teacher links new lessons to what I already know	<input type="radio"/> ①	<input type="radio"/> ②	<input type="radio"/> ③	<input type="radio"/> ④
g) My teacher explains a topic again when we don't understand --	<input type="radio"/> ①	<input type="radio"/> ②	<input type="radio"/> ③	<input type="radio"/> ④

27

How much do you agree with these statements about science?

Fill in only **one** oval for each row.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I usually do well in science	①	②	③	④
b) Science is more difficult for me than for many of my classmates ----	①	②	③	④
c) Science is not one of my strengths	①	②	③	④
d) I learn things quickly in science	①	②	③	④
e) I am good at working out difficult science problems	①	②	③	④
f) My teacher tells me I am good at science	①	②	③	④
g) Science is harder for me than any other subject	①	②	③	④
h) Science makes me confused	①	②	③	④

28

How much do you agree with these statements about science?

Fill in only **one** oval for each row.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I think learning science will help me in my daily life	①	②	③	④
b) I need science to learn other school subjects	①	②	③	④
c) I need to do well in science to get into the college or university of my choice	①	②	③	④
d) I need to do well in science to get the job I want	①	②	③	④
e) I would like a job that involves using science	①	②	③	④
f) It is important to learn about science to get ahead in the world	①	②	③	④
g) Learning science will give me more job opportunities when I am an adult	①	②	③	④
h) My parents think that it is important that I do well in science	①	②	③	④
i) It is important to do well in science	①	②	③	④

Homework

29

A. How often does your teacher give you homework in the following subjects?

Fill in only **one** oval for each row.

	Every day	3 or 4 times a week	1 or 2 times a week	Less than once a week	Never
a) Mathematics	①	②	③	④	⑤
b) Science	①	②	③	④	⑤

B. When your teacher gives you homework in the following subjects, about how many minutes do you usually spend on your homework?

Fill in only **one** oval for each row.

	My teacher never gives me homework in...	1-15 minutes	16-30 minutes	31-60 minutes	61-90 minutes	More than 90 minutes
a) Mathematics --	①	②	③	④	⑤	⑥
b) Science	①	②	③	④	⑤	⑥

30

A. During the last 12 months, have you attended extra lessons or tutoring not provided by the school in the following subjects?

Fill in only one oval for each row.

	Yes, to excel in class	Yes, to keep up in class	No
a) Mathematics	①	②	③
b) Science	①	②	③

B. For how many of the last 12 months have you attended extra lessons or tutoring?

Fill in only one oval for each row.

	Did not attend	Less than 4 months	4-8 months	More than 8 months
a) Mathematics	①	②	③	④
b) Science	①	②	③	④

31

How hard was this test compared to most other tests you have taken this year in school?

*Fill in **one** oval only.*

Easier than other tests -- ①

About as hard as other tests -- ②

Harder than other tests -- ③

Much harder than other tests -- ④

32

How hard did you try on this test compared to how hard you tried on most other tests you have taken this year in school?

*Fill in **one** oval only.*

Not as hard as on other tests -- ①

About as hard as on other tests -- ②

Harder than on other tests -- ③

Much harder than on other tests -- ④

33

How important was it to you to do well on this test?

*Fill in **one** oval only.*

Not very important -- ①

Somewhat important -- ②

Important -- ③

Very important -- ④



Thank You!

Thank you for filling out the questionnaire!



BOSTON
COLLEGE

timss.bc.edu

Grade 8



© IEA, 2018
International Association
for the Evaluation of
Educational Achievement