



Identification Label

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

Student Questionnaire

<Grade 8>

<TIMSS National Research Center Name>

<Address>

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. Shade in the circle 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 one circle only.

Yes --

No --

Example 2

How often do you do these things?

Fill one circle for each line.

| | 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 **one** circle for each line.

| | Agree a lot | Agree a little | Disagree a little | Disagree a lot |
|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| a) Watching movies is fun | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) I like eating ice cream | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) I do not like waking up early | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| d) I enjoy doing chores | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |

- Read each question carefully, and pick the answer you think is best.
- Fill in the circle next to or under your answer.
- If you decide to change your answer, draw an **X** through your first answer, like this: . Then, fill in the circle 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

Are you a girl or a boy?

*Fill **one** circle only.*

Girl --

Boy --

2

When were you born?

Fill the circles next to the month and year you were born.

a) Month

January --

February --

March --

April --

May --

June --

July --

August --

September --

October --

November --

December --

b) Year

2001 --

2002 --

2003 --

2004 --

2005 --

2006 --

2007 --

2008 --

2009 --

Other --

3

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

Fill one circle only.

Always --

Almost always --

Sometimes --

Never --

4

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

Fill one circle only.

None or very few
(0–10 books) --

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

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

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

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

5

Do you have any of these things at your home?

Fill **one** circle for each line.

- | | Yes | No |
|---|-----------------------|-----------------------|
| a) A computer or tablet | <input type="radio"/> | <input type="radio"/> |
| b) Study desk/table for your use | <input type="radio"/> | <input type="radio"/> |
| c) Your own room..... | <input type="radio"/> | <input type="radio"/> |
| d) Internet connection | <input type="radio"/> | <input type="radio"/> |
| e) Your own mobile phone | <input type="radio"/> | <input type="radio"/> |
| f) <country-specific indicator of wealth> | <input type="radio"/> | <input type="radio"/> |
| g) <country-specific indicator of wealth> | <input type="radio"/> | <input type="radio"/> |
| h) <country-specific indicator of wealth> | <input type="radio"/> | <input type="radio"/> |
| i) <country-specific indicator of wealth> | <input type="radio"/> | <input type="radio"/> |

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 one circle only.

- Some <Primary education— ISCED Level 1 or
Lower secondary education—ISCED Level 2>
or did not go to school --
- <Lower secondary education—ISCED Level 2> --
- <Upper secondary education—ISCED Level 3> --
- <Post-secondary, non-tertiary
education—ISCED Level 4> --
- <Short-cycle tertiary education—ISCED Level 5> --
- <Bachelor’s or equivalent level—ISCED Level 6> --
- <Postgraduate degree: Master’s—ISCED
Level 7 or Doctor—ISCED Level 8> --
- I don’t know --
- Not applicable --

6 (continued)

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

B. <Parent/Guardian B>

*Fill **one** circle only.*

- Some <Primary education— ISCED Level 1 or
Lower secondary education—ISCED Level 2>
or did not go to school --
- <Lower secondary education—ISCED Level 2> --
- <Upper secondary education—ISCED Level 3> --
- <Post-secondary, non-tertiary
education—ISCED Level 4> --
- <Short-cycle tertiary education—ISCED Level 5> --
- <Bachelor's or equivalent level—ISCED Level 6> --
- <Postgraduate degree: Master's—ISCED
Level 7 or Doctor—ISCED Level 8> --
- I don't know --
- Not applicable --

7

How far in your education do you expect to go?

Fill one circle only.

Finish <Lower secondary
education—ISCED Level 2>

Finish <Upper secondary
education—ISCED Level 3>

Finish <Post-secondary, non-tertiary
education—ISCED Level 4>

Finish <Short-cycle tertiary
education—ISCED Level 5>

Finish <Bachelor's or equivalent
level—ISCED Level 6>

Finish <Postgraduate degree:
Master's—ISCED Level 7 or
Doctor—ISCED Level 8>

8

Were your <parents/guardians> born in <country>?

A. <Parent/Guardian A>

Fill one circle only.

Yes --

No --

I don't know --

Not applicable --

B. <Parent/Guardian B>

Fill one circle only.

Yes --

No --

I don't know --

Not applicable --

9

A. Were you born in <country>?

Fill one circle only.

Yes --

(If Yes, go to #10)

No --

If No,

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

Fill one circle only.

Older than 10 years old --

5 to 10 years old --

Younger than 5 years old --

10

About how often are you absent from school?

Fill one circle only.

Once a week --

Once every two weeks --

Once a month --

Once every two months --

Never or almost never --

11

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

Fill **one** circle for each line.

- | | Every
day | Almost
every day | Sometimes | Never |
|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| a) I feel tired | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) I feel hungry | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

12

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

Fill **one** circle for each line.

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

Your School

13

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

Fill **one** circle for each line.

| | Agree a lot | Agree a little | Disagree a little | Disagree a lot |
|--|-----------------------|-----------------------|-----------------------|-----------------------|
| a) I like being in school | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) I feel safe when I am at school | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) I feel like I belong at this school | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| d) Teachers at my school are fair to me | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| e) I am proud to go to this school | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

14

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

*Fill **one** circle for each line.*

| | 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) | ↓ <input type="radio"/> | ↓ <input type="radio"/> | ↓ <input type="radio"/> | ↓ <input type="radio"/> |
| b) Spread lies about me | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) Shared my secrets with others | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| d) Refused to talk to me | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| e) Insulted a member of my family | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| f) Stole something from me | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| g) Made me do things I didn't want to do | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| h) Sent me nasty or hurtful messages online | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| i) Shared nasty or hurtful things about me online | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| j) Shared embarrassing photos of me online | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| k) Threatened me | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| l) Physically hurt me | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| m) Excluded me from their group (e.g., parties, messaging) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| n) Damaged something of mine on purpose | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

15

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

*Fill **one** circle only.*

Every or almost every lesson --

About half the lessons --

Some lessons --

Never --

16

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

Fill **one** circle for each line.

| | 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"/> |

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

*Fill **one** circle for each line.*

| | 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 | ○ | ○ | ○ | ○ |

18

How often do these things happen in your mathematics lessons?

Fill **one** circle for each line.

| | Every or almost every lesson | About half the lessons | Some lessons | Never |
|--|------------------------------|------------------------|-----------------------|-----------------------|
| a) Students don't listen to what the teacher says | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) There is disruptive noise | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) It is too disorderly for students to work well | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| d) My teacher has to wait a long time for students to quiet down | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| e) Students interrupt the teacher | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| f) My teacher has to keep telling us to follow the classroom rules | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

19

How much do you agree with these statements about mathematics?

Fill **one** circle for each line.

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

How much do you agree with these statements about mathematics?

Fill **one** circle for each line.

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

21

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

*Fill **one** circle only.*

At least once a week --

Once or twice a month --

A few times a year --

Never --

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

Fill **one** circle for each line.

| | 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"/> |

23

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

Fill **one** circle for each line.

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

24

How much do you agree with these statements about science?

*Fill **one** circle for each line.*

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

25

How much do you agree with these statements about science?

Fill **one** circle for each line.

| | Agree a lot | Agree a little | Disagree a little | Disagree a lot |
|--|-----------------------|-----------------------|-----------------------|-----------------------|
| a) I think learning science will help me in my daily life | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) I need science to learn other school subjects | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) I need to do well in science to get into the <university> of my choice - | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| d) I need to do well in science to get the job I want | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| e) I would like a job that involves using science | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| f) It is important to learn about science to get ahead in the world | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| g) Learning science will give me more job opportunities when I am an adult | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| h) My parents think that it is important that I do well in science | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| i) It is important to do well in science | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Homework

26

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

Fill one circle for each line.

| | Every day | 3 or 4 times a week | 1 or 2 times a week | Less than once a week | Never |
|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| a) Mathematics | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) Science | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

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

Fill one circle for each line.

| | 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 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) Science | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

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

Fill one circle for each line.

| | Yes, to excel in class | Yes, to keep up in class | No |
|----------------------|------------------------------|--------------------------------|--------|
| a) Mathematics | ↓ ○ | ↓ ○ | ↓ ○ |
| b) Science | ○ | ○ | ○ |

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

Fill one circle for each line.

| | Did not attend | Less than 4 months | 4-8 months | More than 8 months |
|----------------------|-------------------|-----------------------|---------------|-----------------------|
| a) Mathematics | ↓ ○ | ↓ ○ | ↓ ○ | ↓ ○ |
| b) Science | ○ | ○ | ○ | ○ |



Thank You!

Thank you for filling out the questionnaire!



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<Grade 8>



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