

# OECD Program for International Student Assessment 2012



ORGANISATION FOR ECONOMIC  
CO-OPERATION AND DEVELOPMENT

USA

Date of Test (Main Survey PISA 2012)		
_____	_____	2012
Month	Day	

## Student Questionnaire - Form B

**Place Label Here**

Student ID

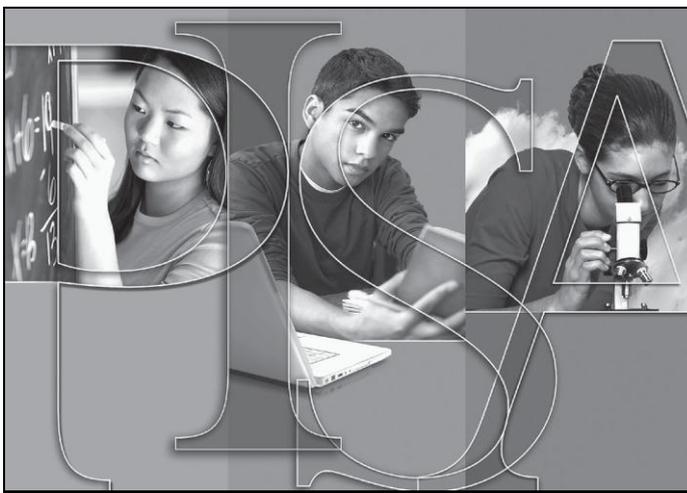
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Participation Status

*English* 313

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### Project Consortium

- Australian Council for Educational Research (ACER)
- cApStAn Linguistic Quality Control (Belgium)
- Deutsches Institut für Internationale Pädagogische Forschung (DIPF, Germany)
- Educational Testing Service (ETS, USA)
- Institutt for Lærerdanning og Skoleutvikling (ILS, Norway)
- Leibniz - Institute for Science and Mathematics Education (IPN, Germany)
- National Institute for Educational Policy Research (NIER, Japan)
- The Tao Initiative: CRP - Henri Tudor and Université de Luxembourg EMACS (Luxembourg)
- Unité d'analyse des systèmes et des pratiques d'enseignement (aSPe, Belgium)
- Westat (USA)



In this booklet you will find questions about:

- You (Section A)
- Your Family and Home (Section B)
- Your Mathematics Experiences (Section C)
- Your School (Section D)
- Learning Mathematics (Section E)
- Your Problem Solving Experiences (Section F)

Please read each question carefully and answer as accurately as you can. In the test, you usually circled your answers. For this questionnaire, you will normally answer by darkening a circle. For a few questions you will need to write a short answer.

If you make a mistake when darkening a circle, erase your mistake and darken the correct circle. If you make a mistake when writing an answer, simply cross it out and write the correct answer next to it.

**In this questionnaire, there are no right or wrong answers. Your answers should be the ones that are right for you.**

You may ask for help if you do not understand something or are not sure how to answer a question.

**Your answers will be combined with answers from other students to calculate totals and averages. All information (or responses) you provide may only be used for statistical purposes and may not be disclosed, or used, in identifiable form for any other purpose except as required by law [Education Science Reform Act of 2002 (ESRA 2002), 20 U.S. Code, Section 9573].**

## SECTION A: ABOUT YOU

ST01

**Q1** What grade are you in?

\_\_\_\_\_ *grade*

ST03

**Q2** When were you born?

*(Please write the month, day and year you were born.)*

\_\_\_\_\_ 19\_\_\_\_\_  
*Month Day Year*

ST04

**Q3** Are you female or male?

*Female Male*

<sub>1</sub>      <sub>2</sub>

USA\_ST116A01

**Q4** Which best describes you?

*(Please darken only one circle.)*

I am Hispanic or Latino. <sub>1</sub>

I am not Hispanic or Latino. <sub>2</sub>

**Q5 Which of these categories best describes your race?**

*(Please darken one or more circles.)*

White <sub>1</sub>

Black or African American <sub>1</sub>

Asian <sub>1</sub>

American Indian or Alaska Native <sub>1</sub>

Native Hawaiian or Other Pacific Islander <sub>1</sub>

USA\_ST05N01

**Q6 Did you attend pre-school?**

No <sub>1</sub>

Yes, for one year or less <sub>2</sub>

Yes, for more than one year <sub>3</sub>

USA\_ST05N02

**Q7 Did you attend kindergarten?**

No <sub>1</sub>

Yes <sub>2</sub>

**Q8 How old were you when you started first grade?**

\_\_\_\_\_ years old

USA\_ST07N01

**Q9 Have you ever repeated a grade?**

*(Please darken only one circle in each row.)*

	<i>No, never</i>	<i>Yes, once</i>	<i>Yes, twice or more</i>
a) In kindergarten	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>
b) In grades 1-6	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>
c) In grades 7-9	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>
d) In grades 10-12	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>

ST08

**Q10 In the last two full weeks of school, how many times did you arrive late for school?**

*(Please darken only one circle.)*

None	<input type="radio"/> <sub>1</sub>
One or two times	<input type="radio"/> <sub>2</sub>
Three or four times	<input type="radio"/> <sub>3</sub>
Five or more times	<input type="radio"/> <sub>4</sub>

**Q11** In the last two full weeks of school, how many times did you skip a whole school day?

*(Please darken only one circle.)*

None  <sub>1</sub>

One or two times  <sub>2</sub>

Three or four times  <sub>3</sub>

Five or more times  <sub>4</sub>

**Q12** In the last two full weeks of school, how many times did you skip some classes?

*(Please darken only one circle.)*

None  <sub>1</sub>

One or two times  <sub>2</sub>

Three or four times  <sub>3</sub>

Five or more times  <sub>4</sub>

**Q13 What is the highest grade or level of school you expect to complete?**

*(Please darken only one circle.)*

Less than high school  <sub>1</sub>

High school (high school diploma or GED)  <sub>2</sub>

Vocational or technical certificate (such as cosmetology or auto mechanics)  <sub>3</sub>

Associate's degree (2-year degree from a community college)  <sub>4</sub>

Bachelor's degree (4-year college degree)  <sub>5</sub>

Master's degree  <sub>6</sub>

Doctoral or professional degree such as medicine or law  <sub>7</sub>

## SECTION B: ABOUT YOUR FAMILY AND HOME

In this section you will be asked some questions about your family and your home.

Some of the following questions are about your mother and father or those persons who are like a mother or father to you — for example, guardians, step-parents, foster parents, etc.

If you share your time with more than one set of parents or guardians, please answer the following questions for those parents/guardians you spend the most time with.

ST11

### Q14 Who usually lives at home with you?

*(Please darken only one circle in each row.)*

- |   | Yes                                | No                                 |
|---|------------------------------------|------------------------------------|
| a) Mother (including stepmother or foster mother) | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> |
| b) Father (including stepfather or foster father) | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> |
| c) Brother(s) (including stepbrothers)            | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> |
| d) Sister(s) (including stepsisters)              | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> |
| e) Grandparent(s)                                 | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> |
| f) Others (e.g., cousin)                          | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> |

**Q15 What is your mother's main job?  
(e.g., school teacher, cook, sales manager)**

*(If she is not working now, please tell us her last main job.)*

*Please write in the job title.* \_\_\_\_\_

**Q16 What does your mother do in her main job?  
(e.g., teaches high school students, helps prepare meals in a restaurant, manages a sales team)**

*Please use a sentence to describe the kind of work she does or did in that job.*

\_\_\_\_\_

**Q17 What is the highest level of schooling (not including college) completed by your mother?**

*If you are not sure which circle to choose, please ask the test administrator for help.*

*(Please darken only one circle.)*

She completed grade 12 (high school diploma or GED)  <sub>1</sub>

She completed grade 9  <sub>2</sub>

She completed grade 6  <sub>3</sub>

She did not complete grade 6  <sub>4</sub>

**Q18 Does your mother have any of the following degrees, certificates, or diplomas?**

*If you are not sure how to answer this question, please ask the test administrator for help.*

*(Please darken only one circle in each row.)*

- |  | <i>Yes</i>                         | <i>No</i>                          |
|--|------------------------------------|------------------------------------|
| a) Master's, doctoral, or professional degree such as medicine or law                                    | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> |
| b) Bachelor's degree (4-year college degree)   | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> |
| c) Associate's degree (2-year degree from a community college)   | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> |
| d) Vocational or technical certificate/diploma after high school (such as cosmetology or auto mechanics) | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> |

**Q19 What is your mother currently doing?**

*(Please darken only one circle.)*

- |                                    |                                    |
|------------------------------------|------------------------------------|
| Working full-time for pay          | <input type="radio"/> <sub>1</sub> |
| Working part-time for pay          | <input type="radio"/> <sub>2</sub> |
| Not working, but looking for a job | <input type="radio"/> <sub>3</sub> |
| Other (e.g., home duties, retired) | <input type="radio"/> <sub>4</sub> |

**Q20 What is your father's main job?  
(e.g., school teacher, cook, sales manager)**

*(If he is not working now, please tell us his last main job.)*

*Please write in the job title.* \_\_\_\_\_

**Q21 What does your father do in his main job?  
(e.g., teaches high school students, helps prepare meals in a restaurant, manages a sales team)**

*Please use a sentence to describe the kind of work he does or did in that job.*

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**Q22 What is the highest level of schooling (not including college) completed by your father?**

*If you are not sure how to answer this question, please ask the test administrator for help.*

*(Please darken only one circle.)*

He completed grade 12 (high school diploma or GED)  <sub>1</sub>

He completed grade 9  <sub>2</sub>

He completed grade 6  <sub>3</sub>

He did not complete grade 6  <sub>4</sub>

**Q23 Does your father have any of the following degrees, certificates, or diplomas?**

*If you are not sure which circle to choose, please ask the test administrator for help.*

*(Please darken only one circle in each row.)*

- |  | <i>Yes</i>                         | <i>No</i>                          |
|--|------------------------------------|------------------------------------|
| a) Master's, doctoral, or professional degree such as medicine or law                                    | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> |
| b) Bachelor's degree (4-year college degree)   | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> |
| c) Associate's degree (2-year degree from a community college)   | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> |
| d) Vocational or technical certificate/diploma after high school (such as cosmetology or auto mechanics) | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> |

**Q24 What is your father currently doing?**

*(Please darken only one circle.)*

- |                                    |                                    |
|------------------------------------|------------------------------------|
| Working full-time for pay          | <input type="radio"/> <sub>1</sub> |
| Working part-time for pay          | <input type="radio"/> <sub>2</sub> |
| Not working, but looking for a job | <input type="radio"/> <sub>3</sub> |
| Other (e.g., home duties, retired) | <input type="radio"/> <sub>4</sub> |

**Q25 In what country were you and your parents born?***(Please darken only one circle in each column.)*

	<i>You</i>	<i>Mother</i>	<i>Father</i>
United States*	<input type="radio"/> <sub>01</sub>	<input type="radio"/> <sub>01</sub>	<input type="radio"/> <sub>01</sub>
Other country	<input type="radio"/> <sub>02</sub>	<input type="radio"/> <sub>02</sub>	<input type="radio"/> <sub>02</sub>

\*NOTE: The "United States" refers to the 50 states, District of Columbia, and U.S. military bases abroad.

**Q26 If you were NOT born in the United States, how old were you when you arrived in the United States?***If you were less than 12 months old, please write zero (0).**If you were born in the United States please skip this question and go to Q27.*

\_\_\_\_\_ years old

**Q27 What language do you speak at home most of the time?***(Please darken only one circle.)*

English	<input type="radio"/> <sub>313</sub>
Spanish	<input type="radio"/> <sub>156</sub>
Other language	<input type="radio"/> <sub>859</sub>

**Q28 Which of the following are in your home?***(Please darken only one circle in each row.)*

	<i>Yes</i>	<i>No</i>
a) A desk to study at	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
b) A room of your own	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
c) A quiet place to study	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
d) A computer you can use for school work	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
e) Educational software	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
f) A link to the Internet	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
g) Classic literature (e.g., Shakespeare)	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
h) Books of poetry	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
i) Works of art (e.g., paintings)	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
j) Books to help with your school work	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
k) Technical reference books or manuals	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
l) A dictionary	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
m) A dishwasher	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
n) A DVD player	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
o) A guest room	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
p) A high-speed Internet connection	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>
q) A musical instrument	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>

**Q29** **How many of these are there at your home?***(Please darken only one circle in each row.)*

	<i>None</i>	<i>One</i>	<i>Two</i>	<i>Three or more</i>
a) Cell phones	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <sub>4</sub>
b) Televisions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <sub>4</sub>
c) Computers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <sub>4</sub>
d) Cars	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <sub>4</sub>
e) Bathrooms with a bathtub or shower	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <sub>4</sub>

**Q30** **How many books are there in your home?***There are usually about 15 books per foot of shelving. Do not include magazines, newspapers, or your schoolbooks.**(Please darken only one circle.)*

0-10 books	<input type="radio"/> <sub>1</sub>
11-25 books	<input type="radio"/> <sub>2</sub>
26-100 books	<input type="radio"/> <sub>3</sub>
101-200 books	<input type="radio"/> <sub>4</sub>
201-500 books	<input type="radio"/> <sub>5</sub>
More than 500 books	<input type="radio"/> <sub>6</sub>

## SECTION C: ABOUT YOUR MATHEMATICS EXPERIENCES

ST77

### Q31 How often do these things happen in your mathematics classes?

*(Please darken only one circle in each row.)*

	<i>Every class</i>	<i>Most classes</i>	<i>Some classes</i>	<i>Never or hardly ever</i>
a) The teacher shows an interest in every student's learning.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) The teacher gives extra help when students need it.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) The teacher helps students with their learning.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) The teacher continues teaching until the students understand.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
e) The teacher gives students an opportunity to express opinions.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

**Q32 How often do these things happen in your mathematics classes?**

*(Please darken only one circle in each row.)*

	<i>Every class</i>	<i>Most classes</i>	<i>Some classes</i>	<i>Never or hardly ever</i>
a) The teacher sets clear goals for our learning.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) The teacher asks me or my classmates to present our thinking or reasoning at some length.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) The teacher gives different work to classmates who have difficulties learning and/or to those who can advance faster.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) The teacher assigns projects that require at least one week to complete.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
e) The teacher tells me about how well I am doing in my mathematics class.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
f) The teacher asks questions to check whether we have understood what was taught.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
g) The teacher has us work in small groups to come up with joint solutions to a problem or task.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
h) At the beginning of a lesson, the teacher presents a short summary of the previous lesson.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

	<i>Every class</i>	<i>Most classes</i>	<i>Some classes</i>	<i>Never or hardly ever</i>
i) The teacher asks us to help plan classroom activities or topics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
j) The teacher gives me feedback on my strengths and weaknesses in mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
k) The teacher tells us what is expected of us when we get a test, quiz or assignment.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
l) The teacher tells us what we have to learn.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
m) The teacher tells me what I need to do to become better in mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

**Q33 Thinking about the mathematics teacher that taught your last mathematics class: how often does each of the following happen?**

*(Please darken only one circle in each row.)*

	<i>Always or almost always</i>	<i>Often</i>	<i>Sometimes</i>	<i>Never or rarely</i>
a) The teacher asks questions that make us reflect on the problem.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) The teacher gives problems that require us to think for an extended time.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) The teacher asks us to decide on our own procedures for solving complex problems.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) The teacher presents problems for which there is no immediately obvious method of solution.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
e) The teacher presents problems in different contexts so that students know whether they have understood the concepts.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
f) The teacher helps us to learn from mistakes we have made.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
g) The teacher asks us to explain how we have solved a problem.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
h) The teacher presents problems that require students to apply what they have learned to new contexts.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
i) The teacher gives problems that can be solved in several different ways.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

**Q34 How often do these things happen in your mathematics classes?**

*(Please darken only one circle in each row.)*

	<i>Every class</i>	<i>Most classes</i>	<i>Some classes</i>	<i>Never or hardly ever</i>
a) Students don't listen to what the teacher says.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) There is noise and disorder.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) The teacher has to wait a long time for students to quiet down.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) Students cannot work well.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
e) Students don't start working for a long time after the lesson begins.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

**Q35** Below you will find descriptions of three mathematics teachers. Read each of the descriptions of these teachers, then let us know to what extent you agree with the final statement.

*(Please darken only one circle in each row.)*

- |  | <i>Strongly<br/>agree</i>          | <i>Agree</i>                       | <i>Disagree</i>                    | <i>Strongly<br/>disagree</i>       |
|--|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| a) Ms. Anderson assigns mathematics homework every other day. She always gets the answers back to students before examinations. <b>Ms. Anderson is concerned about her students' learning.</b> | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> | <input type="radio"/> <sub>3</sub> | <input type="radio"/> <sub>4</sub> |
| b) Mr. Crawford assigns mathematics homework once a week. He always gets the answers back to students before examinations. <b>Mr. Crawford is concerned about his students' learning.</b>      | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> | <input type="radio"/> <sub>3</sub> | <input type="radio"/> <sub>4</sub> |
| c) Ms. Dalton assigns mathematics homework once a week. She never gets the answers back to students before examinations. <b>Ms. Dalton is concerned about her students' learning.</b>          | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> | <input type="radio"/> <sub>3</sub> | <input type="radio"/> <sub>4</sub> |

**Q36** Thinking about the mathematics teacher who taught your last mathematics class: to what extent do you agree with the following statements?

*(Please darken only one circle in each row.)*

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
a) My teacher lets us know we need to work hard.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) My teacher provides extra help when needed.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) My teacher helps students learn.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) My teacher gives students the opportunity to express opinions.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

- Q37** Below you will find descriptions of three mathematics teachers. Read each of the descriptions of these teachers, then let us know to what extent you agree with the final statement.

*(Please darken only one circle in each row.)*

- |  | <i>Strongly<br/>agree</i>          | <i>Agree</i>                       | <i>Disagree</i>                    | <i>Strongly<br/>disagree</i>       |
|--|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| a) The students in Ms. Franklin's class frequently interrupt her lessons. She is always in her classroom five minutes before the class starts. <b>Ms. Franklin is in control of her classroom.</b> | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> | <input type="radio"/> <sub>3</sub> | <input type="radio"/> <sub>4</sub> |
| b) The students in Ms. Harris' class are calm and orderly. She is always in her classroom at the start of class. <b>Ms. Harris is in control of her classroom.</b>                                 | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> | <input type="radio"/> <sub>3</sub> | <input type="radio"/> <sub>4</sub> |
| c) The students in Mr. Reynolds' class frequently interrupt his lessons. As a result, he often arrives five minutes late to his classroom. <b>Mr. Reynolds is in control of his classroom.</b>     | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> | <input type="radio"/> <sub>3</sub> | <input type="radio"/> <sub>4</sub> |

**Q38** Thinking about the mathematics teacher who taught your last mathematics class: to what extent do you agree with the following statements?

*(Please darken only one circle in each row.)*

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
a) My teacher gets students to listen to him or her.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) My teacher keeps the class orderly.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) My teacher starts the class period on time.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) The teacher has to wait a long time for students to quiet down.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

## SECTION D: ABOUT YOUR SCHOOL

ST86

**Q39 Thinking about the teachers at your school: to what extent do you agree with the following statements?**

*(Please darken only one circle in each row.)*

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
a) Students get along well with most teachers.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) Most teachers are interested in students' well-being.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) Most of my teachers really listen to what I have to say.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) If I need extra help, I will receive it from my teachers.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
e) Most of my teachers treat me fairly.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

**Q40 Thinking about your school: to what extent do you agree with the following statements?**

*(Please darken only one circle in each row.)*

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
a) I feel like an outsider (or left out of things) at school.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) I make friends easily at school.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) I feel like I belong at school.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) I feel awkward and out of place in my school.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
e) Other students seem to like me.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
f) I feel lonely at school.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
g) I feel happy at school.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
h) Things are ideal in my school.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
i) I am satisfied with my school.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

**Q41 Thinking about what you have learned at school: to what extent do you agree with the following statements?**

*(Please darken only one circle in each row.)*

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
a) School has done little to prepare me for adult life when I leave school.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) School has been a waste of time.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) School has helped give me confidence to make decisions.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) School has taught me things which could be useful in a job.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

**Q42 Thinking about your school: to what extent do you agree with the following statements?**

*(Please darken only one circle in each row.)*

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
a) Trying hard at school will help me get a good job.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) Trying hard at school will help me get into a good college.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) I enjoy receiving good grades.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) Trying hard at school is important.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

**Q43 Thinking about your school: to what extent do you agree with the following statements?**

*(Please darken only one circle in each row.)*

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
a) If I put in enough effort I can succeed in school.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) It is completely my choice whether or not I do well at school.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) Family demands or other problems prevent me from putting a lot of time into my school work.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) If I had different teachers I would try harder at school.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
e) If I wanted to I could do well in school.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
f) I do badly in school whether or not I study for my exams.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

## SECTION E: ABOUT LEARNING MATHEMATICS

ST29

### Q44 Thinking about your views on mathematics: to what extent do you agree with the following statements?

(Please darken only one circle in each row.)

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
a) I enjoy reading about mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) Making an effort in mathematics is worth it because it will help me in the work that I want to do later on.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) I look forward to my mathematics lessons.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) I do mathematics because I enjoy it.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
e) Learning mathematics is worthwhile for me because it will improve my career prospects.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
f) I am interested in the things I learn in mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
g) Mathematics is an important subject for me because I need it for what I want to study later on.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
h) I will learn many things in mathematics that will help me get a job.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

**Q45 Thinking about how people important to you view mathematics: how strongly do you agree with the following statements?**

*(Please darken only one circle in each row.)*

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
a) Most of my friends do well in mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) Most of my friends work hard at mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) My friends enjoy taking mathematics tests.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) My parents believe it's important for me to study mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
e) My parents believe that mathematics is important for my career.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
f) My parents like mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

**Q46 How confident do you feel about having to do the following mathematics tasks?**

*(Please darken only one circle in each row.)*

	<i>Very confident</i>	<i>Confident</i>	<i>Not very confident</i>	<i>Not at all confident</i>
a) Using a train schedule to figure out how long it would take to get from one place to another.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) Calculating how much cheaper a TV would be after a 30% discount.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) Calculating how many square feet of tile you need to cover a floor.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) Understanding graphs presented in newspapers.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
e) Solving an equation like $3x + 5 = 17$ .	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
f) Finding the actual distance between two places on a map with a 1:10,000 scale.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
g) Solving an equation like $2(x+3) = (x + 3)(x - 3)$ .	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
h) Calculating the gas mileage of a car.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

**Q47 Thinking about studying mathematics: to what extent do you agree with the following statements?**

*(Please darken only one circle in each row.)*

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
a) I often worry that it will be difficult for me in mathematics classes.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) I am just not good at mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) I get very tense when I have to do mathematics homework.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) I get good grades in mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
e) I get very nervous doing mathematics problems.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
f) I learn mathematics quickly.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
g) I have always believed that mathematics is one of my best subjects.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
h) I feel helpless when doing a mathematics problem.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
i) In my mathematics class, I understand even the most difficult work.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
j) I worry that I will get poor grades in mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

**Q48 Thinking about your mathematics lessons: to what extent do you agree with the following statements?**

*(Please darken only one circle in each row.)*

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
a) If I put in enough effort I can succeed in mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) Whether or not I do well in mathematics is completely up to me.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) Family demands or other problems prevent me from putting a lot of time into my mathematics work.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) If I had different teachers I would try harder in mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
e) If I wanted to I could do well in mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
f) I do badly in mathematics whether or not I study for my exams.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

**Q49** Suppose that you are a student in the following situation:

*Each week, your mathematics teacher gives a short quiz. Recently you have done badly on these quizzes. Today you are trying to figure out why.*

**How likely are you to have these thoughts or feelings in this situation?**

*(Please darken only one circle in each row.)*

	<i>Very likely</i>	<i>Likely</i>	<i>Slightly likely</i>	<i>Not at all likely</i>
a) I'm not very good at solving mathematics problems.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) My teacher did not explain the concepts well this week.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) This week I guessed badly on the quiz.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) Sometimes the course material is too hard.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
e) The teacher did not get students interested in the material.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
f) Sometimes I am just unlucky.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

**Q50 Thinking about the mathematics you do for school: to what extent do you agree with the following statements?**

*(Please darken only one circle in each row.)*

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
a) I have my homework finished in time for mathematics class.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) I work hard on my mathematics homework.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) I am prepared for my mathematics exams.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) I study hard for mathematics quizzes.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
e) I keep studying until I understand mathematics material.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
f) I pay attention in mathematics class.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
g) I listen in mathematics class.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
h) I avoid distractions when I am studying mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
i) I keep my mathematics work well organized.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

**Q51** For each pair of statements, please choose the item that best describes you.

*a) Please darken only one of the following two circles.*

- <sub>1</sub> I intend to take additional mathematics courses after I finish high school.
- <sub>2</sub> I intend to take additional English courses after I finish high school.

*b) Please darken only one of the following two circles.*

- <sub>1</sub> I plan on majoring in a subject in college that requires mathematics skills.
- <sub>2</sub> I plan on majoring in a subject in college that requires science skills.

*c) Please darken only one of the following two circles.*

- <sub>1</sub> I am willing to study harder in my mathematics classes than is required.
- <sub>2</sub> I am willing to study harder in my English classes than is required.

*d) Please darken only one of the following two circles.*

- <sub>1</sub> I plan on taking as many mathematics classes as I can during my education.
- <sub>2</sub> I plan on taking as many science classes as I can during my education.

*e) Please darken only one of the following two circles.*

- <sub>1</sub> I am planning on pursuing a career that involves a lot of mathematics.
- <sub>2</sub> I am planning on pursuing a career that involves a lot of science.

**Q52 How often do you do the following things at school and outside of school?**

*(Please darken only one circle in each row.)*

	<i>Always or almost always</i>	<i>Often</i>	<i>Sometimes</i>	<i>Never or rarely</i>
a) I talk about mathematics problems with my friends.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) I help my friends with mathematics.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) I do mathematics as an extracurricular activity.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) I take part in mathematics competitions.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
e) I do mathematics more than 2 hours a day outside of school.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
f) I play chess.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
g) I program computers.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
h) I participate in a mathematics club.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

## SECTION F: ABOUT YOUR PROBLEM SOLVING EXPERIENCES

ST93

### Q53 How well does each of the following statements describe you?

*(Please darken only one circle in each row.)*

- |  | <i>Very<br/>much<br/>like me</i>   | <i>Mostly<br/>like me</i>          | <i>Somewhat<br/>like me</i>        | <i>Not<br/>much<br/>like me</i>    | <i>Not at<br/>all like<br/>me</i>  |
|--|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| a) When confronted with a problem I give up easily.                      | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> | <input type="radio"/> <sub>3</sub> | <input type="radio"/> <sub>4</sub> | <input type="radio"/> <sub>5</sub> |
| b) I put off difficult problems.   | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> | <input type="radio"/> <sub>3</sub> | <input type="radio"/> <sub>4</sub> | <input type="radio"/> <sub>5</sub> |
| c) I remain interested in the tasks that I start.                        | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> | <input type="radio"/> <sub>3</sub> | <input type="radio"/> <sub>4</sub> | <input type="radio"/> <sub>5</sub> |
| d) I continue working on tasks until everything is perfect.              | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> | <input type="radio"/> <sub>3</sub> | <input type="radio"/> <sub>4</sub> | <input type="radio"/> <sub>5</sub> |
| e) When confronted with a problem I do more than what is expected of me. | <input type="radio"/> <sub>1</sub> | <input type="radio"/> <sub>2</sub> | <input type="radio"/> <sub>3</sub> | <input type="radio"/> <sub>4</sub> | <input type="radio"/> <sub>5</sub> |

**Q54 How well does each of the following statements describe you?***(Please darken only one circle in each row.)*

	<i>Very much like me</i>	<i>Mostly like me</i>	<i>Somewhat like me</i>	<i>Not much like me</i>	<i>Not at all like me</i>
a) I can handle a lot of information.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>	<input type="radio"/> <sub>5</sub>
b) I am quick to understand things.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>	<input type="radio"/> <sub>5</sub>
c) I seek explanations for things.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>	<input type="radio"/> <sub>5</sub>
d) I can easily link facts together.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>	<input type="radio"/> <sub>5</sub>
e) I like to solve complex problems.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>	<input type="radio"/> <sub>5</sub>

- Q55** *Suppose that you have been sending text messages from your cell phone for several weeks. Today, however, you can't send text messages. You want to try to solve the problem.*

**What would you do? For each suggestion, darken the option that best applies to you.**

*(Please darken only one circle in each row.)*

	<i>I would definitely do this</i>	<i>I would probably do this</i>	<i>I would probably not do this</i>	<i>I would definitely not do this</i>
a) I press every button possible to find out what is wrong.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) I think about what might have caused the problem and what I can do to solve it.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) I read the manual.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) I ask a friend for help.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

- Q56** Suppose that you are planning a trip to the zoo with your brother. You don't know which route to take to get there.

**What would you do? For each suggestion, darken the option that best applies to you.**

*(Please darken only one circle in each row.)*

- |  | <i>I would<br/>definitely<br/>do this</i> | <i>I would<br/>probably<br/>do this</i> | <i>I would<br/>probably<br/>not do this</i> | <i>I would<br/>definitely<br/>not do this</i> |
|--|---|---|---|---|
| a) I read the zoo brochure to see if it says how to get there.     | <input type="radio"/> <sub>1</sub>        | <input type="radio"/> <sub>2</sub>      | <input type="radio"/> <sub>3</sub>          | <input type="radio"/> <sub>4</sub>            |
| b) I study a map and figure out the best route.                    | <input type="radio"/> <sub>1</sub>        | <input type="radio"/> <sub>2</sub>      | <input type="radio"/> <sub>3</sub>          | <input type="radio"/> <sub>4</sub>            |
| c) I leave it to my brother to worry about how to get there.       | <input type="radio"/> <sub>1</sub>        | <input type="radio"/> <sub>2</sub>      | <input type="radio"/> <sub>3</sub>          | <input type="radio"/> <sub>4</sub>            |
| d) I know roughly where it is, so I suggest we just start driving. | <input type="radio"/> <sub>1</sub>        | <input type="radio"/> <sub>2</sub>      | <input type="radio"/> <sub>3</sub>          | <input type="radio"/> <sub>4</sub>            |

**Q57** *Suppose that you arrive at the train station. There is a ticket machine that you have never used before. You want to buy a ticket.*

**What would you do? For each suggestion, darken the option that best applies to you.**

*(Please darken only one circle in each row.)*

	<i>I would definitely do this</i>	<i>I would probably do this</i>	<i>I would probably not do this</i>	<i>I would definitely not do this</i>
a) I check how similar it is to other ticket machines I have used.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
b) I try out all the buttons to see what happens.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
c) I ask someone for help.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>
d) I try to find a ticket office at the station to buy a ticket.	<input type="radio"/> <sub>1</sub>	<input type="radio"/> <sub>2</sub>	<input type="radio"/> <sub>3</sub>	<input type="radio"/> <sub>4</sub>

***Thank you very much for your cooperation  
in completing this questionnaire!***