# OECD Program for International Student Assessment 2012

ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT

*USA*

| Date of Test (Main Survey PISA 2012) | | |
|---|---|---|
| Month | Day | 2012 |

## Student Questionnaire - Form C

**Place Label Here**

Student ID

Participation Status

*English* 313

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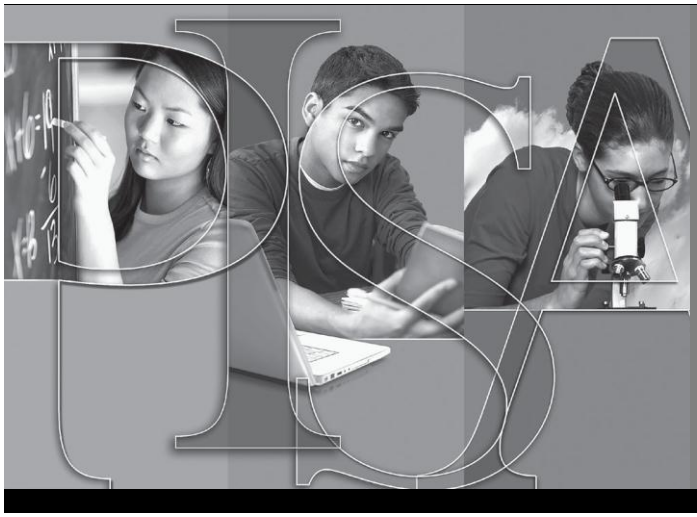


**Project Consortium**

- 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 Lærerutdanning 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)
- Learning Mathematics (Section C)
- Your Mathematics Experiences (Section D)
- Your School (Section E)

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*

○1 ○2

### Q4 Which best describes you?

*(Please darken only one circle.)*

I am Hispanic or Latino. ○1

I am <u>not</u> Hispanic or Latino. ○2

USA_ST117A01

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

*(Please darken one or more circles.)*

White ○1

Black or African American ○1

Asian ○1

American Indian or Alaska Native ○1

Native Hawaiian or Other Pacific Islander ○1

USA_ST05N01

## Q6 Did you attend pre-school?

No ○1

Yes, for one year or less ○2

Yes, for more than one year ○3

USA_ST05N02

## Q7 Did you attend kindergarten?

No ○1

Yes ○2

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

_____ *years old*



## Q9 Have you ever repeated a grade?

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

| | *No, never* | *Yes, once* | *Yes, twice or more* |
|---|---|---|---|
| a) In kindergarten | ○ 1 | ○ 2 | ○ 3 |
| b) In grades 1-6 | ○ 1 | ○ 2 | ○ 3 |
| c) In grades 7-9 | ○ 1 | ○ 2 | ○ 3 |
| d) In grades 10-12 | ○ 1 | ○ 2 | ○ 3 |



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

*(Please darken only one circle.)*

None ○ 1

One or two times ○ 2

Three or four times ○ 3

Five or more times ○ 4

ST09

## 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 ○1

One or two times ○2

Three or four times ○3

Five or more times ○4

ST115

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

*(Please darken only one circle.)*

None ○1

One or two times ○2

Three or four times ○3

Five or more times ○4

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

*(Please darken only one circle.)*

| | |
|---|---|
| Less than high school | ○ 1 |
| High school (high school diploma or GED) | ○ 2 |
| Vocational or technical certificate (such as cosmetology or auto mechanics) | ○ 3 |
| Associate's degree (2-year degree from a community college) | ○ 4 |
| Bachelor's degree (4-year college degree) | ○ 5 |
| Master's degree | ○ 6 |
| Doctoral or professional degree such as medicine or law | ○ 7 |

## 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) | ○1 | ○2 |
| b) Father (including stepfather or foster father) | ○1 | ○2 |
| c) Brother(s) (including stepbrothers) | ○1 | ○2 |
| d) Sister(s) (including stepsisters) | ○1 | ○2 |
| e) Grandparent(s) | ○1 | ○2 |
| f) Others (e.g., cousin) | ○1 | ○2 |

## 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) | ○ 1 |
| She completed grade 9 | ○ 2 |
| She completed grade 6 | ○ 3 |
| She did not complete grade 6 | ○ 4 |

## 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.)*

| | | *Yes* | *No* |
|---|---|---|---|
| a) | Master's, doctoral, or professional degree such as medicine or law | ○ 1 | ○ 2 |
| b) | Bachelor's degree (4-year college degree) | ○ 1 | ○ 2 |
| c) | Associate's degree (2-year degree from a community college) | ○ 1 | ○ 2 |
| d) | Vocational or technical certificate/diploma after high school (such as cosmetology or auto mechanics) | ○ 1 | ○ 2 |



## Q19 What is your mother currently doing?

*(Please darken only one circle.)*

Working full-time for pay ○ 1

Working part-time for pay ○ 2

Not working, but looking for a job ○ 3

Other (e.g., home duties, retired) ○ 4

**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.*

_____



**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) | ○ 1 |
| He completed grade 9 | ○ 2 |
| He completed grade 6 | ○ 3 |
| He did not complete grade 6 | ○ 4 |

## 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.)*

| | *Yes* | *No* |
|---|---|---|
| a) Master's, doctoral, or professional degree such as medicine or law | ○1 | ○2 |
| b) Bachelor's degree (4-year college degree) | ○1 | ○2 |
| c) Associate's degree (2-year degree from a community college) | ○1 | ○2 |
| d) Vocational or technical certificate/diploma after high school (such as cosmetology or auto mechanics) | ○1 | ○2 |



## Q24 What is your father currently doing?

*(Please darken only one circle.)*

Working full-time for pay ○1

Working part-time for pay ○2

Not working, but looking for a job ○3

Other (e.g., home duties, retired) ○4

ST20

## Q25 In what country were you and your parents born?

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

| | *You* | *Mother* | *Father* |
|---|---|---|---|
| United States* | ○ 01 | ○ 01 | ○ 01 |
| Other country | ○ 02 | ○ 02 | ○ 02 |

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

ST21

## Q26 If <u>you</u> 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*

ST25

## Q27 What language do you speak at home most of the time?

*(Please darken only one circle.)*

| | |
|---|---|
| English | ○ 313 |
| Spanish | ○ 156 |
| Other language | ○ 859 |

## Q28 Which of the following are in your home?

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

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

## Q29 How many of these are there at your home?

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

| | *None* | *One* | *Two* | *Three or more* |
|---|---|---|---|---|
| a) Cell phones | ○ | ○ | ○ | ○ 4 |
| b) Televisions | ○ | ○ | ○ | ○ 4 |
| c) Computers | ○ | ○ | ○ | ○ 4 |
| d) Cars | ○ | ○ | ○ | ○ 4 |
| e) Bathrooms with a bathtub or shower | ○ | ○ | ○ | ○ 4 |



## 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 ○ 1

11-25 books ○ 2

26-100 books ○ 3

101-200 books ○ 4

201-500 books ○ 5

More than 500 books ○ 6

## SECTION C: ABOUT LEARNING MATHEMATICS

ST53

### Q31 For each group of three items, please choose the item that best describes your approach to mathematics.

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

○1 When I study for a mathematics test, I try to figure out what are the most important parts to learn.

○2 When I study for a mathematics test, I try to understand new concepts by relating them to things I already know.

○3 When I study for a mathematics test, I learn as much as I can by heart.

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

○1 When I study mathematics, I try to figure out which concepts I still do not understand completely.

○2 When I study mathematics, I think of new ways to get the answer.

○3 When I study mathematics, I make myself check to see if I remember the work I have already done.

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

○1 When I study mathematics, I try to relate the work to things I have learned in other subjects.

○2 When I study mathematics, I start by working out exactly what I need to learn.

○3 When I study mathematics, I go over some problems so often that I feel as if I could solve them in my sleep.

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

○1 In order to remember the method for solving a mathematics problem, I go through examples again and again.

○2 I think about how the mathematics I have learned can be used in everyday life.

○3 When I cannot understand something in mathematics, I always search for more information to clarify the problem.

## Q32 How many hours do you typically spend per week attending out-of-school-time lessons in the following subjects?

*These are only lessons in subjects that you are also learning at school, that you spend extra time learning outside of normal school hours. The lessons may be given at your school, at your home or somewhere else.*

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

| | *I do not attend out-of-school-time lessons in this subject* | *Less than 2 hours a week* | *2 or more but less than 4 hours a week* | *4 or more but less than 6 hours a week* | *6 or more hours a week* |
|---|---|---|---|---|---|
| a) English (e.g., language arts, literature, writing) | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| b) Mathematics | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| c) Science | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| d) Other subjects | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |

## Q33 Thinking about all school subjects: on average, how many hours do you spend each week on the following?

*When answering, include time spent on the weekend too.*

a) Homework or other material assigned by your teachers _____ *hours per week*

b) Out of the time spent in (a), how many hours do you work on your homework with somebody overlooking and providing help if necessary ("guided homework"), either at school or elsewhere? _____ *hours per week*

c) Work with a personal tutor (whether paid or not) _____ *hours per week*

d) Attend out of school classes organized by a commercial company and paid for by your parents _____ *hours per week*

e) Study with a parent or other family member _____ *hours per week*

f) Practice content from school lessons by working on a computer (e.g., learn vocabulary with training software) _____ *hours per week*

## Q34 How often have you encountered the following types of mathematics tasks during your time at school?

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

| | *Frequently* | *Sometimes* | *Rarely* | *Never* |
|---|---|---|---|---|
| a) Figuring out from a train schedule how long it would take to get from one place to another. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| b) Calculating how much more expensive a computer would be after adding tax. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| c) Calculating how many square feet of tile you need to cover a floor. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| d) Understanding scientific tables presented in an article. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| e) Solving an equation like $6x^2 + 5 = 29$. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| Finding the actual distance between two places on a map with a 1:10,000 scale. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| g) Solving an equation like $2(x+3) = (x + 3)(x - 3)$. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| h) Calculating the power consumption of an electronic appliance per week. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| i) Solving an equation like $3x + 5 = 17$. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |

## Q35 Thinking about mathematical concepts: how familiar are you with the following terms?

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

| | *Never heard of it* | *Heard of it once or twice* | *Heard of it a few times* | *Heard of it often* | *Know it well, understand the concept* |
|---|---|---|---|---|---|
| a) Exponential Function | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| b) Divisor | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| c) Quadratic Function | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| d) Proper Number | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| e) Linear Equation | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| f) Vectors | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| g) Complex Number | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| h) Rational Number | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| i) Radicals | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| j) Subjunctive Scaling | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| k) Polygon | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| l) Declarative Fraction | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| m) Congruent Figure | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| n) Cosine | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| o) Arithmetic Mean | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |
| p) Probability | ○ 1 | ○ 2 | ○ 3 | ○ 4 | ○ 5 |

ST69

## Q36 How many minutes, on average, are there in a class period for the following subjects?

a) Minutes in a class period in English (e.g., language arts, literature, writing): _____ *minutes*

b) Minutes in a class period in mathematics: _____ *minutes*

c) Minutes in a class period in science: _____ *minutes*

ST70

## Q37 How many class periods per week do you typically have for the following subjects?

a) Number of class periods per week in English (e.g., language arts, literature, writing): _____ *class periods*

b) Number of class periods per week in mathematics: _____ *class periods*

c) Number of class periods per week in science: _____ *class periods*

ST71

## Q38 In a normal, full week at school, how many class periods do you have in total?

Number of **ALL** class periods _____ *class periods*

ST72

## Q39 On average, about how many students attend your English class (e.g., language arts, literature, writing)?

_____ *students*

The next four questions are about your experience with different kinds of mathematics problems at school. You will see descriptions of problems and gray-colored boxes, each containing a mathematics problem.

**Please read each problem. You do NOT need to solve it.**

ST73

**Q40** *In this box are two problems. Each requires you to understand a problem written in text and perform the appropriate calculations. Usually the problem talks about practical situations, but the numbers, people and places mentioned are made up. All the information you need is given. Here are two examples.*

1) Ann is two years older than Betty and Betty is four times as old as Sam. When Betty is 30, how old is Sam?

2) Mr. Smith bought a television and a bed. The television cost $625 but he got a 10% discount. The bed cost $200. He paid $20 for delivery. How much money did Mr. Smith spend?

**We want to know your experience with this type of word problem at school. Do not solve them!**

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

| | *Frequently* | *Sometimes* | *Rarely* | *Never* |
|---|---|---|---|---|
| a) How often have you encountered this type of problem in your **mathematics lessons**? | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| b) How often have you encountered this type of problem in the **tests you have taken at school?** | ○ 1 | ○ 2 | ○ 3 | ○ 4 |

**Q41** *Below are examples of another type of mathematics problem.*

1) Solve 2x + 3 = 7.
2) Find the volume of a box with sides 3m, 4m and 5m.

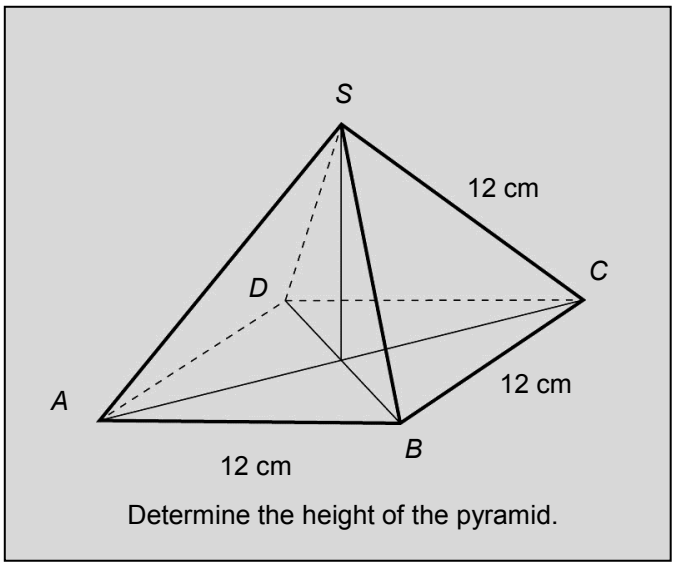
**We want to know about your experience with this type of problem at school. Do not solve them!**

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

| | *Frequently* | *Sometimes* | *Rarely* | *Never* |
|---|---|---|---|---|
| a) How often have you encountered this type of problem in your **mathematics lessons**? | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| b) How often have you encountered this type of problem in the **tests you have taken at school?** | ○ 1 | ○ 2 | ○ 3 | ○ 4 |

**Q42** *In the next type of problem, you have to use mathematical knowledge and draw conclusions. There is no practical application provided. Here are two examples.*

*1) Here you need to use geometrical theorems:*




Determine the height of the pyramid.

*2) Here you have to know what a prime number is:*

If n is any number: can $(n+1)^2$ be a prime number?

**We want to know about your experience with this type of problem at school. Do not solve them!**

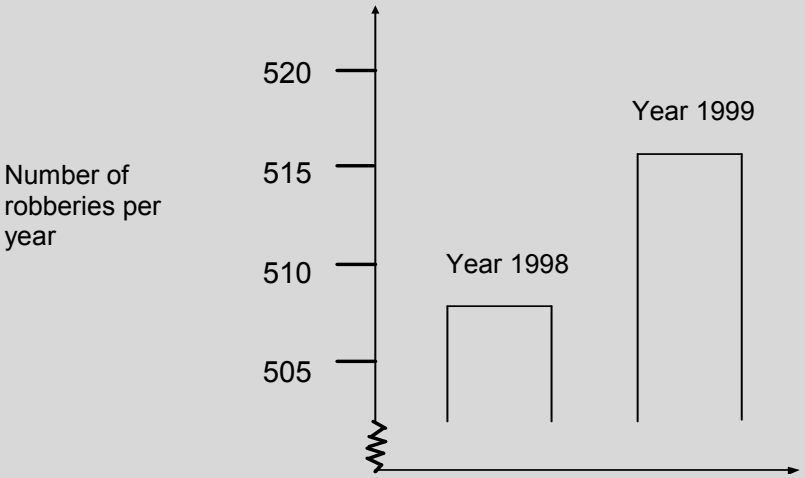
*(Please darken only one circle in each row.)*

| | *Frequently* | *Sometimes* | *Rarely* | *Never* |
|---|---|---|---|---|
| a) How often have you encountered this type of problem in your **mathematics lessons**? | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| b) How often have you encountered this type of problem in the **tests you have taken at school?** | ○ 1 | ○ 2 | ○ 3 | ○ 4 |

**Q43** *In this type of problem, you have to apply suitable mathematical knowledge to find a useful answer to a problem that arises in everyday life or work. The data and information are about real situations. Here are two examples.*

*Example 1:*

A TV reporter says "This graph shows that there is a huge increase in the number of robberies from 1998 to 1999."




**Do you consider the reporter's statement to be a reasonable interpretation of the graph?** Give an explanation to support your answer.

*Example 2:*

For years the relationship between a person's recommended maximum heart rate and the person's age was described by the following formula:

*Recommended maximum heart rate* = 220 - *age*

Recent research showed that this formula should be modified slightly. The new formula is as follows:

*Recommended maximum heart rate* = 208 – (0.7 × *age*)

From which age onwards does the recommended maximum heart rate increase as a result of the introduction of the new formula? Show your work.

**We want to know about your experience with this type of problem at school. Do not solve them!**

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

| | *Frequently* | *Sometimes* | *Rarely* | *Never* |
|---|---|---|---|---|
| a) How often have you encountered this type of problem in your **mathematics lessons**? | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| b) How often have you encountered this type of problem in the **tests you have taken at school?** | ○ 1 | ○ 2 | ○ 3 | ○ 4 |

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

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

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

# SECTION D: ABOUT YOUR MATHEMATICS EXPERIENCES

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## Q45 How often do these things happen in your mathematics classes?

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

| | *Every class* | *Most classes* | *Some classes* | *Never or hardly ever* |
|---|---|---|---|---|
| a) The teacher shows an interest in every student's learning. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| b) The teacher gives extra help when students need it. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| c) The teacher helps students with their learning. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| d) The teacher continues teaching until the students understand. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| e) The teacher gives students an opportunity to express opinions. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |

## Q46 How often do these things happen in your mathematics classes?

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

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

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

## Q47 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.)*

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

## Q48 How often do these things happen in your mathematics classes?

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

| | *Every class* | *Most classes* | *Some classes* | *Never or hardly ever* |
|---|---|---|---|---|
| a) Students don't listen to what the teacher says. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| b) There is noise and disorder. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| c) The teacher has to wait a long time for students to quiet down. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| d) Students cannot work well. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| e) Students don't start working for a long time after the lesson begins. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |

## Q49 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.)*

| | *Strongly agree* | *Agree* | *Disagree* | *Strongly disagree* |
|---|---|---|---|---|
| a) Ms. Anderson assigns mathematics homework every other day. She always gets the answers back to students before examinations. **Ms. Anderson is concerned about her students' learning.** | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| b) Mr. Crawford assigns mathematics homework once a week. He always gets the answers back to students before examinations. **Mr. Crawford is concerned about his students' learning.** | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| c) Ms. Dalton assigns mathematics homework once a week. She never gets the answers back to students before examinations. **Ms. Dalton is concerned about her students' learning.** | ○ 1 | ○ 2 | ○ 3 | ○ 4 |

## Q50 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.)*

| | *Strongly agree* | *Agree* | *Disagree* | *Strongly disagree* |
|---|---|---|---|---|
| a) My teacher lets us know we need to work hard. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| b) My teacher provides extra help when needed. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| c) My teacher helps students learn. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| d) My teacher gives students the opportunity to express opinions. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |

## Q51 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.)*

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

## Q52 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.)*

| | *Strongly agree* | *Agree* | *Disagree* | *Strongly disagree* |
|---|---|---|---|---|
| a) My teacher gets students to listen to him or her. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| b) My teacher keeps the class orderly. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| c) My teacher starts the class period on time. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| d) The teacher has to wait a long time for students to quiet down. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |

# SECTION E: ABOUT YOUR SCHOOL

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## Q53 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.)*

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

## Q54 Thinking about your school: to what extent do you agree with the following statements?

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

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

## Q55 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.)*

| | *Strongly agree* | *Agree* | *Disagree* | *Strongly disagree* |
|---|---|---|---|---|
| a) School has done little to prepare me for adult life when I leave school. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| b) School has been a waste of time. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| c) School has helped give me confidence to make decisions. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| d) School has taught me things which could be useful in a job. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |

## Q56 Thinking about your school: to what extent do you agree with the following statements?

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

| | *Strongly agree* | *Agree* | *Disagree* | *Strongly disagree* |
|---|---|---|---|---|
| a) Trying hard at school will help me get a good job. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| b) Trying hard at school will help me get into a good college. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| c) I enjoy receiving good grades. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |
| d) Trying hard at school is important. | ○ 1 | ○ 2 | ○ 3 | ○ 4 |

## Q57 Thinking about your school: to what extent do you agree with the following statements?

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

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

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

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