

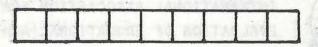
INTERNATIONAL ASSOCIATION FOR THE EVALUATION OF EDUCATIONAL ACHIEVEMENT

SECOND -
STUDY OF
MATHEMATICS -

GRADE 8
STUDENT QUESTIONNAIRE (POSTTEST)

BOOKLET 4L

STUDENT QUESTIONNAIRE GRADE 8



Please write the nine-digit number that your teacher assigned as your personal identification number in the space above.

This booklet has two sections. Section A contains questions about you and what you do. Section B contains questions to find out what you think about mathematics.

All of your answers will be confidential. We will not know which name goes with your student number.

INSTRUCTIONS FOR SECTION A

If you have any difficulty with Questions 1-15 in this section, you may ask your teacher for help. Questions 16-24 should be your own judgement of what you believe. There are no right or wrong answers to these questions.

Your teacher will tell you when to start this section.

INSTRUCTIONS FOR SECTION B

In this section we want to find out what you think of mathematics. There are no right or wrong answers.

The first set of questions asks how you feel about certain mathematical topics. Here is a sample item from this set:

How do you feel about working problems that involve fractions?

a	Very important	Important	Undecided	Not important	Not at all important
ъ	Very easy	Easy	Undecided	Hard	Very hard
с	Like a lot	Like	Undecided	Dislike	Dislike a lot

If you feel that working problems with fractions is important, then you should circle "Important" as has been done above. Now look at b and see that the question is asking you if you find working problems that involve fractions very easy, easy, you are undecided, hard, or very hard. Now put a circle around the answer you choose. Now do the same for c.

From question 40 onwards the instructions and items are slightly different. For example, here is a practice item:

I am as good at mathematics as most students my age.

Strongly	Disagree	Undecided	Agree	Strongly
Disagree	DIPORTEC	ondecraea	ngi cc	Agree

Again you should circle how you feel about that statement. Please do that now.

Your teacher will tell you when to start section B.

SECTION A

Please answer all of the following questions as best you can. If you have any difficulty with questions 1-15, ask your teacher for help. Please answer each question by either writing your response in the space provided, checking the appropriate box, or circling the desired choice.

1.	Are you a girl or a boy?	Girl 🗌	Воу	×
2.	What was your date of birth?	Month	Day Yes	ur I
3.	How many older brothers and sist (Count all older brothers and six your home.)			Live at
4.	What is (or was) your father's (If your father is dead or is male guardian's occupation. I please state what your father'	no longer with f you do not h	ave a male guardia	
	Now please state the duties he example, if he is a "salesman,			
5.	(If your mother is dead or is female guardian's occupation. please state what your mother'	no longer with If you do not s occupation w	your family, given have a female guas.)	
	My mother has no occupation	other than ho	usewife.	
	My mother has a part-time o	occupation other	r than housewife.	
	My mother has a full-time o	occupation other	r than housewife.	
	Please explain, just as you di occupation is other than house performs and for whom she work	ewife. Please		

		6.	Check the <u>highest</u> type of school attended by your father or maguardian.	le
			A Very little schooling, or no schooling at all.	
			B Elementary school.	
			C High school.	
			D College, university, or some form of education beyond high school.	
		•	ALL PARTS AND THE PARTS AND TH	
•	*	7.	Check the highest type of school attended by your mother or fer guardian.	nale
			A Very little schooling, or no schooling at all.	
			B Elementary school.	
			C High school.	
		<i>i</i>	D College, university, or some form of education beyond high school.	
		8.	Do your parents speak English at home?	
	18		A They do not speak English at home.	
			B They sometimes speak English at home.	
			C They usually speak English at home.	
			D They speak only English at home.	
				-

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9. After this year, how many more years of full-time (including University, College, etc.) education do you expect or plan to complete?							
	A	None at all (0	years).				
	В	Up to 2 years.					
	C	More than 2 year	rs - up to	5 years.			
	D	More than 5 year	urs - up to	8 years.			
	E	More than 8 year	irs.				
						terpe :	
10.	formal for wh	how many hours of class time, have not you actually nink you do in a	re you beer did last w	n doing each week as well	week? Give a	response	
*	Но	urs last week		Hours in a	typical week	100	
11.		how many hours of				e of	
*	Но	urs last week		Hours in a	typical week		
12.	outsi	uch extra mathem de of your school st hour.)					
	Но	ours last week		Hours in a	typical week		
13.		r this year, how ed you with your				family	
	Α	Never or very	infrequent	ly.			
	В	Occasionally.					
	C	Regularly.					

14.	Do you	use	one	or	more	of	the	following?	(Check	all	that	apply
-----	--------	-----	-----	----	------	----	-----	------------	--------	-----	------	-------

		Within Home	In Mathematics Classes	In Other Classes
A	Abacus (soroban).	= 3/4	1 = === == U ===)	
В	Slide rule.	- X -		
С	Four-function calculator.			
D	"Scientific" (i.e., pre-programmed multi-function) calculator or			
	"Programmable" calculator.			
E	Personal computer or computer terminal.	Tes les		

15. What uses do you make of calculators and computers?

Please fill in each square with

N for NO Y for YES

	(a) In school	Four Function Calculator	Scientific or Programmable Calculator	Computer or Terminal
Α	Purely for CHECKING answers.			
В	As an aid in SOLVING problems.	4	H. S. E. L.	
C	For taking tests.			
D	As an aid in doing projects.			
E	For recreation.			
	(b) At home			
F	To do homework.			

Below are some statements about you, your mother or father (or both), and mathematics. You are asked to mark each statement in terms of how well it describes what your parent does or thinks about mathematics. Is it like what they do or think? Is it not like what they do or think?

For example, consider the statement:

"My father thinks that mathematics is fun."

If this describes what your father thinks about mathematics, mark the response as shown below:

Exactly Somewhat Unsure Not very Not at much like all like

Make only one response to each item. Please make sure that you answer all items.

16. My father seems to enjoy doing mathematics.

Exactly Somewhat Unsure Not very Not at like unch like all like

17. My mother seems to enjoy doing mathematics.

Exactly Somewhat Unsure Not very Not at much like all like

18. My father would usually be able to do my mathematics homework problems if I asked him to help.

Exactly Somewhat Unsure Not very Not at like unch like all like

19. My mother would usually be able to do my mathematics homework problems if I asked her to help.

Exactly Somewhat Unsure Not very Not at like like all like

20. My parents are usually very interested in helping me with mathematics.

Exactly Somewhat Unsure Not very Not at like like much like all like

21. My mother thinks that learning mathematics is very important for me.

Exactly Somewhat Unsure Not very Not at like like much like all like

22. My father thinks that learning mathematics is very important for me.

Exactly Somewhat Unsure Not very Not at like unch like all like

23. My parents encourage me to learn as much mathematics as possible.

Exactly Somewhat Unsure Not very Not at like like much like all like

24. My parents want me to do very well in my mathematics class.

Exactly Somewhat Unsure Not very Not at like like much like all like

SECTION B

In questions 25 - 39 you are given a list of things you do or learn about in mathematics. For each of the activities you are asked to state how important they are, how difficult you find them, and how much you like them. Circle the choice which best describes your feelings.

How do you feel about each of these mathematics activities?

25. Checking an answer to a problem by going back over it.

a	Very important	Important	Undecided	Not important	Not at all important
ъ	Very easy	Easy	Undecided	Hard	Very hard
С	Like a lot	Like	Undecided	Dislike	Dislike a

26. Memorizing rules and formulae.

a	Very	Important	Undecided	Not	Not at all
	important			important	important
ъ	Very easy	Easy	Undecided	Hard	Very hard
c	Like a lot	Like	Undecided	Dislike	Dislike a

27. Using charts and graphs.

a	Very important	Important	Undecided	Not important	Not at all important
ъ	Very easy	Easy	Undecided	Hard	Very hard
С	Like a lot	Like	Undecided	Dislike	Dislike a lot

28. Solving word problems.

a	Very important	Important	Undecided	Not important	Not at all important
b	Very easy	Easy	Undecided	Hard	Very hard
С	Like a lot	Like	Undecided	Dislike	Dislike a

29. Solving equations.

	а	Very important	Important	Undecided	Not important	Not at all important
	ъ	Very easy	Easy	Undecided	Hard	Very hard
	С	Like a lot	Like	Undecided	Dislike	Dislike a lot
30.	Sol	ving inequalit	ies.			
	а	Very important	Important	Undecided	Not important	Not at all important
	ъ	Very easy	Easy	Undecided	Hard	Very hard
8/	С	Like a lot	Like	Undecided	Dislike	Dislike a lot
31.	Lea	rning about ged	ometric figure	es.		
	a	Very important	Important	Undecided	Not important	Not at all important
	ъ	Very easy	Easy	Undecided	Hard	Very hard
	С	Like a lot	Like	Undecided	Dislike	Dislike a lot
32.	Est	imating answers	s to problems			
	a,	Very important	Important	Undecided	Not important	Not at all important
	b	Very easy	Easy	Undecided	Hard	Very hard
	С	Like a lot	Like	Undecided	Dislike	Dislike a
						100

33. Learning about ratio and proportion.

a	Very important	Important	Undecided	Not important	Not at all important
ъ	Very easy	Easy	Undecided	Hard	Very hard
С	Like a lot	Like	Undecided	Dislike	Dislike a lot

34. Working problems that involve decimal fractions.

a	Very important	Important	Undecided	Not important	Not at all important
ъ	Very easy	Easy	Undecided	Hard	Very hard
c	Like a lot	Like	Undecided	Dislike	Dislike a lot

35. Working with sets.

a	Very important	Important	Undecided	Not important	Not at all important
ъ	Very easy	Easy	Undecided	Hard	Very hard
C	Like a lot	Like	Undecided	Dislike	Dislike a lot

36. Learning about units of measure (e.g., distance, area, volume).

a	Very important	Important	Undecided	Not important	Not at all important
Ъ	Very easy	Easy	Undecided	Hard	Very hard
е	Like a lot	Like	Undecided	Dislike	Dislike a lot

37. Drawing geometric figures.

a	Very important	Important	Undecided	Not important	Not at all important
ъ	Very easy	Easy	Undecided	Hard	Very hard
С	Like a lot	Like	Undecided	Dislike	Dislike a

38. Getting information from statistical tables.

a	Very important	Important	Undecided	Not important	Not at all important
ъ	Very easy	Easy	Undecided	Hard	Very hard
С	Like a lot	Like	Undecided	Dislike	Dislike a lot

39. Comparing geometric figures that are similar.

a	Very important	Important	Undecided	Not important	Not at all important
ъ	Very easy	Easy	Undecided	Hard	Very hard
С	Like a lot	Like	Undecided	Dislike	Dislike a

Express, on a five point scale, the extent of your agreement between the feeling expressed in each of the following statements and your own personal feelings. Circle the choice which best describes your feelings.

40. Solving word problems is more fun if you use a handheld calculator.

Strongly
Disagree Undecided Agree Strongly
Agree

41. I can get along well in everyday life without using mathematics.

Strongly
Disagree Undecided Agree Strongly
Agree

42. I usually understand what we are talking about in mathematics class.

Strongly
Disagree
Undecided
Agree
Strongly
Agree

43. I will work a long time in order to understand a new idea in mathematics.

Strongly
Disagree Undecided Agree Strongly
Agree

44. A knowledge of mathematics is not necessary in most occupations.

Strongly
Disagree Undecided Agree Strongly
Agree

45. I really want to do well in mathematics.

Strongly
Disagree
Undecided
Agree
Strongly
Agree

46. I would like to work at a job that lets me use mathematics.

Strongly
Disagree
Undecided
Agree
Strongly
Agree

	time.				
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
48.	Mathematics	helps one to	think logically		
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
49.	I feel good	when I solve	a mathematics p	roblem by mys	elf.
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
50.	If you use compute.	a hand-held ca	alculator you do	not have to	learn to
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
51.	Using computation boring.	ters makes lea	arning mathemati	cs more mecha	anical and
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
52.	Mathematics	s is not needed	d in everyday li	ving.	
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
53.	My parents	really want m	e to do well in	mathematics.	
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
54.	I think ma	thematics is f	un.		
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree

47. There have not been any new discoveries in mathematics for a long

55.	Everyone sh	ould learn some	ething about con	nputers.	
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
56.	Mathematics	will change r	apidly in the ne	ear future.	
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
57.	A woman nee	eds a career ju	st as much as a	man does.	
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
58.	There is al	lways a rule to	follow in solv	ing a mathema	atics problem.
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
59.	It scares n	ne to have to t	ake mathematics		
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
60.	It is impor	rtant to know m	athematics in o	rder to get	a good job.
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
61.	I could ne	ver be a good m	nathematician.		
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
62.	I like to	help others wit	th mathematics p	roblems.	
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
			35		

	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
64.	Trial and e	rror can often	be used to solv	ve a mathemat	tics problem.
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
65.	Computers s	olve problems	better than peop	ple do.	
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
66.	I am not so	good at mathe	matics.		
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
67.	I feel chal	lenged when I	am given a diff	icult mathematicul	atics problem.
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
68.	Learning ma	thematics invo	olves mostly mem	orizing.	
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
69.		not figure out annot find my v	a problem, I fe	el as though	I am lost in a
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree
70.	In mathemat	tics, problems	can be solved w	rithout using	rules.
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree

63. Working with numbers makes me happy.

71.	I am looking forward to taking more mathematics.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
72.	Computers do lots of good things for people.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
73.	Mathematics is a good field for creative people.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
74.	No matter how hard I try I still do not do well in mathematics.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
75.	It is less fun to learn mathematical ideas if you use a hand-held calculator.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
76.	Mathematics is harder for me than for most persons.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
77.	Men make better scientists and engineers than women.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
78.	Mathematics is useful in solving everyday problems.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
		100					

79.	Mathematics	helps one to	think according	to strict ru	iles.		
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
80.	I refuse to	spend a lot o	f my own time do	ing mathemat	cies.		
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
81.	Most of math	nematics has p	ractical use on	the job.			
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
82.	There is little place for originality in solving mathematics problems.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
83.	Boys have more natural ability in mathematics than girls.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
84.	Mathematics is a set of rules.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
85.	Most people do not use mathematics in their jobs.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
86.	Estimating is an important mathematics skill.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		

87.	There are	many different	ways to solve mo	ost mathemati	cs problems.		
10	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
88.	I usually	feel calm when	doing mathematic	cs problems.			
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
89.	Using a hamathematic	and-held calcula cal topics.	ator can help yo	u learn many	different		
Ž.	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
90.	Boys need to know more mathematics than girls.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
91.	If I had my choice I would not learn any more mathematics.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
92.	New discoveries in mathematics are constantly being made.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
93.	A mathematics problem can always be solved in different ways.						
	Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree		
			e				