STUDENT QUESTIONNAIRE SIMS80

QUESTION 1
Are you a boy or a girl?   Girl [ ]
                              Boy   [ ]

QUESTION 2
What was your date of birth?   _____ Month _____   Year

QUESTION 3
What is your father's occupation?
(If your father is dead or is no longer with your family
give your guardian's occupation. If you do not have a
guardian, please state what your father's occupation was)

_____

Now please describe the work he does and for whom he works.
For example, if he is a 'salesman', tell what he sells and
where he works.

_____

QUESTION 4
(a) Does your mother have an occupation other than housewife?
    (If your mother is dead or is no longer with your family
    give your female guardian's occupation. If you do not
    have a female guardian, please state what your mother's
    occupation was)

    My mother has no occupation other than housewife   [ ]

    My mother has a part-time occupation other than   [ ]
    housewife

    My mother has a full-time occupation other than   [ ]
    housewife

(b) If your mother has an occupation (part-time or full-time),
    please explain, just as you did for your father, what
    your mother's occupation is other than housewife. Please
    tell the duties she performs and for whom she
    works.
    _____

QUESTION 5
Check the highest level of education completed by your father,
e.g., if your father left secondary school early but later
completed a trade certificate at a Polytechnical College you
would check E.

     A   Left school before the end of primary school   [ ]
     B   Left school after finishing primary school   [ ]
     C   Left before finishing secondary school   [ ]
     D   Left after finishing secondary school   [ ]
    *E   Completed a trade certificate for a specialized   [ ]
             occupation
    *F   Attended college, university or some form of   [ ]
             tertiary education
    *G   Finished a college, university or tertiary   [ ]
             education course

QUESTION 6
Check the highest level of education completed by your mother.

     A   Left school before the end of primary school   [ ]
     B   Left school after finishing primary school   [ ]
     C   Left before finishing secondary school   [ ]
     D   Left after finishing secondary school   [ ]
    *E   Completed a trade certificate for a specialized   [ ]
             occupation
    *F   Attended college, university or some form of   [ ]
             tertiary education
    *G   Finished a college, university or tertiary   [ ]
             education course

QUESTION 7
Do your parents speak (National Center to insert language of
instruction in school) at home?

     A   They do not speak (_____) at home   [ ]
     B   Sometimes speak   (_____) at home   [ ]
     C   Usually speak   (_____) at home   [ ]
     D   Speak only   (_____) at home   [ ]

QUESTION 8
After this year, how many more years of full-time (include
university, college, etc.) education do you expect or plan
to complete?

     A   None at all (0 years)   [ ]
     B   Up to 2 years   [ ]
     C   More than 2 years - up to 5 years   [ ]
     D   More than 5 years - up to 8 years   [ ]
     E   More than 8 years   [ ]

QUESTION 9
About how many hours of homework in mathematics, outside of
formal class time, have you been doing each week?

Give a response for what you actually did last week as well
as a response for what you think you do in a typical week.

    Hours last week _____   Hours in a typical week _____

QUESTION 10
About how many hours of homework for all subjects, outside of
formal class time, do you usually do each week?

    Hours last week _____   Hours in a typical week _____

QUESTION 11
How much extra mathematics tutoring or instruction do you
receive outside of your school in a typical week? (Give
your answer to the nearest hour)

(National Centers should translate 'school' to mean the normal
day time classes as would be reflected by the school's responses
to questions 8-10 in the School Questionnaire)

    Hours last week _____   Hours in a typical week _____

QUESTION 12
So far this year how frequently have your parents helped you
with your mathematics? (Check one)

    Never or very infrequently   [ ]
    Occasionally   [ ]
    Regularly   [ ]

QUESTION 13
Do you use one or more of the following?
(Check all that apply)

		Within Home	In Mathemathics Classes	In other Classes	
A	abacus (soroban)	-	-	-	-
B	slide rule	-	-	-	-
C	four-function calculator	-	-	-	-
D	'scientific' (i.e., pre-programmed multifunction) calculator	-	-	-	-
E	'programmable' calculator	-	-	-	-
F	personal computer or terminal	-	-	-	-

QUESTION 14
(a) Do you use these devices in school?
    Please fill in each cell with
          N for No
          Y for Yes

		Four function Calculator	Scientific or Programmable Calculator	Computer	
A	checking answers to exercises	-	-	-	-
B	as an aid in solving problems	-	-	-	-
C	for taking tests	-	-	-	-
D	as an aid in doing projects	-	-	-	-
E	for recreation	-	-	-	-
F	(b) At home to do homevork	-	-	-	-

QUESTION 15
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
  - like   -   like   much like   all like

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

(a) My father seems to like doing mathematics.

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

(b) My mother seems to like doing mathematics.

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

(c) 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   like   much like   all like

(d) 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   much like   all like

(e) My parents are not usually very interested in helping me
    with mathematics.

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

(f) My mother thinks that learning mathematics is very
    important for me.

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

(g) My father thinks that learning mathematics is very
    important for me.

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

(h) My parents encourage me to learn as much mathematics as
    yossible.

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

(i) My parents want me to do very well in mathematics class.

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

QUESTION 16
Checking an answer to a problem by going back over it.

a	very important	important	undecided	not important	not at all important
b	very easy	easy	undecided	hard	very hard
c	like a lot	like	undecided	dislike	dislike a lot

QUESTION 17
Memorizing rules and folmulae.

a	very important	important	undecided	not important	not at all important
b	very easy	easy	undecided	hard	very hard
c	like a lot	like	undecided	dislike	dislike a lot

QUESTION 18
Solving word problems.

a	very important	important	undecided	not important	not at all important
b	very easy	easy	undecided	hard	very hard
c	like a lot	like	undecided	dislike	dislike a lot

QUESTION 19
Getting information from statistical tables.

	a	very important important	important	undecided	not important	not at all important
	b	very easy	easy	undecided	hard	very hard
	c	like a lot	like	undecided	dislike	dislike a lot

QUESTION 20
Solving equations.

	a	very important important	important	undecided	not important	not at all important
	b	very easy	easy	undecided	hard	very hard
	c	like a lot	like	undecided	dislike	dislike a lot

QUESTION 21
Proving theorems.

	a	very important important	important	undecided	not important	not at all important
	b	very easy	easy	undecided	hard	very hard
	c	like a lot	like	undecided	dislike	dislike a lot

QUESTION 22
Using vectors.

	a	very important important	important	undecided	not important	not at all important
	b	very easy	easy	undecided	hard	very hard
	c	like a lot	like	undecided	dislike	dislike a lot

QUESTION 23
Working with complex numbers.

	a	very important important	important	undecided	not important	not at all important
	b	very easy	easy	undecided	hard	very hard
	c	like a lot	like	undecided	dislike	dislike a lot

QUESTION 24
Investigating sequences and series.

	a	very important	important	undecided	not important	not at all important
	b	very easy	easy	undecided	hard	very hard
	c	like a lot	like	undecided	dislike	dislike a lot

QUESTION 25
Differentiating functions.

	a	very important	important	undecided	not important	not at all important
	b	very easy	easy	undecided	hard	very hard
	c	like a lot	like	undecided	dislike	dislike a lot

QUESTION 26
Drawing graphs of functions.

	a	very important	important	undecided	not important	not at all important
	b	very easy	easy	undecided	hard	very hard
	c	like a lot	like	undecided	dislike	dislike a lot

QUESTION 27
Finding a limit of a function.

	a	very important	important	undecided	not important	not at all important
	b	very easy	easy	undecided	hard	very hard
	c	like a lot	like	undecided	dislike	dislike a lot

QUESTION 28
Solving systems of linear equations.

	a	very important	important	undecided	not important	not at all important
	b	very easy	easy	undecided	hard	very hard
	c	like a lot	like	undecided	dislike	dislike a lot

QUESTION 29
Determining the probability of an outcome.

a	very important	important	undecided	not important	not at all important
b	very easy	easy	undecided	hard	very hard
c	like a lot	like	undecided	dislike	dislike a lot

QUESTION 30
Using a hand-held calculator.

a	very important	important	undecided	not important	not at all important
b	very easy	easy	undecided	hard	very hard
c	like a lot	like	undecided	dislike	dislike a lot

QUESTION 31
Mathematics will change rapidly in the near future.

Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree

QUESTION 32
Mathematics is a good fie]d for creative people.

Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree

QUESTION 33
There is little place for originality in solving mathematics problems.

Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree

QUESTION 34
New discoveries in mathematics are constantly being made.

Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree

QUESTION 35
Mathematics helps one to think according to strict rules.

Strongly Disagree	Disagree	Undecided	Agree	Strongly Agree

QUESTION 36
Estimating is an important mathematics skill.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 37
There are many different ways to solve most mathematics problems.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 38
Learning mathematics involves mostly memorizing.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 39
In mathematics, problems can be solved without using rules.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 40
Trial and error can often be used to solve a mathematics problem.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 41
There is always a rule to follow in solving a mathematics problem.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 42
There have probably not been any new discoveries in mathematics
for a long time.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 43
Mathematics is a set of rules.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 44
A mathematics problem can always be solved in different ways.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 45
Mathematics helps one to think logically.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 46
I really want to do well in mathematics.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 47
My parents really want me to do well in mathematics.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 48
I am looking forward to taking more mathematics.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 49
I feel good when I solve a mathematics problem by myself.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 50
I usually understand what we are talking about in mathematics class.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 51
I am not so good at mathematics.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 52
I like to help others with mathematics problems.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 53
If I had my choice I would not learn any more mathematics.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 54
I feel challlenged when I am given a difficult mathematics
problem.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 55
I refuse to spend a lot of my own time doing mathematics.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 56
Mathematics is harder for me than for most persons.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 57
I could never be a good mathematician.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 58
No matter how hard I try I still do not do well in mathematics.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 59
I will work a long time in order to understand a new idea in
mathematics.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 60
Working with numbers makes me happy.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 61
It scares me to have to take mathematics.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 62
I usually feel calm when doing mathematics problems.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 63
I think mathematics is fun.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 64
When I cannot figure out a problem, I feel as though I am lost
in a maze of words and cannot find my way out.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 65
Men make better scientists and engineers than women.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 66
Boys have more natural ability in mathematics than girls.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 67
Boys need to know more mathematics than girls.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 68
A woman needs a career just as much as a man does.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 69
It is important to know mathematics such as algebra or geometry
in order to get a good job.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 70
Most people do not use mathematics such as algebra or geometry
in their job.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 71
I would like to work at a job that lets me use mathematics.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 72
Mathematics is useful in solving everyday problems.

Strongly   Disagree   Undecided   Agree   Strongly
Disagree   Agree

QUESTION 73
I can get along well in everyday life without using mathematics.

Strongly   Disagree   Undecided   Agree   Strongly
Disagree   Agree

QUESTION 74
Most of mathematics has practical use on the job.

Strongly   Disagree   Undecided   Agree   Strongly
Disagree   Agree

QUESTION 75
Mathematics is not needed in everyday living.

Strongly   Disagree   Undecided   Agree   Strongly
Disagree   Agree

QUESTION 76
A knowledge of mathematics is not necessary in most occupations.

Strongly   Disagree   Undecided   Agree   Strongly
Disagree   Agree

QUESTION 77
Computers can think.

Strongly   Disagree   Undecided   Agree   Strongly
Disagree   Agree

QUESTION 78
Someday computers will run everything.

Strongly   Disagree   Undecided   Agree   Strongly
Disagree   Agree

QUESTION 79
Computers make learning mathematics more enjoyable.

Strongly   Disagree   Undecided   Agree   Strongly
Disagree   Agree

QUESTION 80
Everyone should learn about computers.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 81
Using a hand calculator makes it more fun to solve problems in
mathematics.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 82
Mathematical ideas can be learned faster if you use a hand
calculator.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 83
If you use a hand calculator you do not have to learn how to compute.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree

QUESTION 84
Using a hand calculator can help you learn many different
mathematical topics.

    Strongly   Disagree   Undecided   Agree   Strongly
    Disagree   Agree