

# **Student Background Questionnaire**

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## **2000 Mathematics Grade 12**

# SECTION 1

## Section 1

This section has 22 questions. Mark your answers in your booklet. Fill in only **one** oval for each question.

1. Which best describes you?

- Ⓐ White (not Hispanic)
- Ⓑ Black (not Hispanic)
- Ⓒ Hispanic ("Hispanic" means someone who is from a Mexican, Mexican American, Chicano, Puerto Rican, Cuban, or other Spanish or Hispanic background.)
- Ⓓ Asian or Pacific Islander ("Asian or Pacific Islander" means someone who is from a Chinese, Japanese, Korean, Filipino, Vietnamese, or other Asian or Pacific Island background.)
- Ⓔ American Indian or Alaskan Native ("American Indian or Alaskan Native" means someone who is from one of the American Indian tribes, or one of the original people of Alaska.)
- Ⓕ Other (specify) \_\_\_\_\_

2. If you are Hispanic, what is your Hispanic background?

- Ⓐ I am not Hispanic.
- Ⓑ Mexican, Mexican American, or Chicano
- Ⓒ Puerto Rican
- Ⓓ Cuban
- Ⓔ Other Spanish or Hispanic background

3. How long have you lived in the United States?

- Ⓐ All my life
- Ⓑ More than 5 years but not all my life
- Ⓒ 3-5 years
- Ⓓ Less than 3 years

4. How often do the people in your home speak a language other than English?

- Ⓐ Never
- Ⓑ Sometimes
- Ⓒ Always

5. How far in school did your mother go?

- Ⓐ She did not finish high school.
- Ⓑ She graduated from high school.
- Ⓒ She had some education after high school.
- Ⓓ She graduated from college.
- Ⓔ I don't know.

Section 1

6. How far in school did your father go? TB003601

- Ⓐ He did not finish high school.
- Ⓑ He graduated from high school.
- Ⓒ He had some education after high school.
- Ⓓ He graduated from college.
- Ⓔ I don't know.

7. Does your family get a newspaper regularly? TB000901

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

8. Is there an encyclopedia in your home? TB000903

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

9. Are there more than 25 books in your home? TB000904

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

10. Does your family get any magazines regularly? TB000905

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

11. How much television do you usually watch each day? TB001801

- Ⓐ None
- Ⓑ 1 hour or less
- Ⓒ 2 hours
- Ⓓ 3 hours
- Ⓔ 4 hours
- Ⓕ 5 hours
- Ⓖ 6 hours or more

12. How much time do you usually spend on homework each day? TB006601

- Ⓐ I don't usually have homework assigned.
- Ⓑ I have homework but I don't usually do it.
- Ⓒ 1/2 hour or less
- Ⓓ 1 hour
- Ⓔ More than 1 hour



TB001101

13. About how many pages a day do you have to read in school and for homework?

- ☐ Ⓐ More than 20
- ☐ Ⓑ 16-20
- ☐ Ⓒ 11-15
- ☐ Ⓓ 6-10
- ☐ Ⓔ 5 or fewer

TS004001

14. How many days of school did you miss last month?

- ☐ Ⓐ None
- ☐ Ⓑ 1 or 2 days
- ☐ Ⓒ 3 or 4 days
- ☐ Ⓓ 5 to 10 days
- ☐ Ⓔ More than 10 days

HE000712

15. Within the past two years, how many times have you changed schools because you changed where you lived?

- ☐ Ⓐ None
- ☐ Ⓑ 1
- ☐ Ⓒ 2
- ☐ Ⓓ 3 or more

HE000717

16. How often do you discuss things you have studied in school with someone at home?

- ☐ Ⓐ Almost every day
- ☐ Ⓑ Once or twice a week
- ☐ Ⓒ Once or twice a month
- ☐ Ⓓ Never or hardly ever

HE002795

17. How often do you use a computer at home for schoolwork?

- ☐ Ⓐ Almost every day
- ☐ Ⓑ Once or twice a week
- ☐ Ⓒ Once or twice a month
- ☐ Ⓓ Never or hardly ever
- ☐ Ⓔ There is no computer at home.

ID110020

18. Do you use the Internet at home?

- ☐ Ⓐ Yes
- ☐ Ⓑ No

HE002541

19. How safe do you feel at school?

- ☐ Ⓐ Very safe
- ☐ Ⓑ Somewhat safe
- ☐ Ⓒ Somewhat unsafe
- ☐ Ⓓ Very unsafe

Section 1

QK070697

20. How much education do you think you will complete?

- Ⓐ I will not finish high school.
- Ⓑ I will graduate from high school.
- Ⓒ I will have some education after high school.
- Ⓓ I will graduate from college.
- Ⓔ I will go to graduate school.
- Ⓕ I don't know.

TB005501

21. What do you expect that your main activity will be in the year after you leave high school?

- Ⓐ Working full time
- Ⓑ Attending a vocational, technical, or business school
- Ⓒ Attending a two-year college
- Ⓓ Attending a four-year college, service academy, or university
- Ⓔ Serving in the regular military service
- Ⓕ Other

QK070704

22. How many hours per week do you usually work in a part-time job? Exclude vacations.

- Ⓐ None
- Ⓑ Less than 6 hours
- Ⓒ 6 to 10 hours
- Ⓓ 11 to 15 hours
- Ⓔ 16 to 20 hours
- Ⓕ 21 to 25 hours
- Ⓖ 26 to 30 hours
- Ⓗ More than 30 hours



## SECTION 2

## Section 2

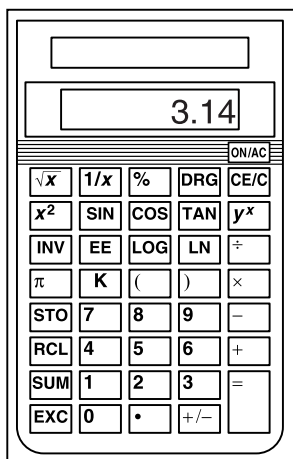
This section has 11 questions. Mark your answers in your booklet. Fill in only **one** oval for each question.

UH000080

1. When you do mathematics in school, how often do you do each of the following?  
Fill in only **one** oval on each line.

	Almost Every Day	Once or Twice a Week	Once or Twice a Month	Never or Hardly Ever	
a. Do mathematics problems from textbooks	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	TM810101
b. Solve mathematics problems with a partner or in small groups	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	HE002478
c. Write a few sentences about how you solved a mathematics problem	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	TM810109
d. Talk with other students during class about how you solved mathematics problems	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	QK070695
e. Use a computer	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	TM810106
f. Use a calculator	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	TM810105

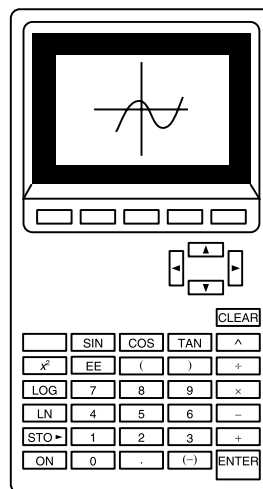
## Section 2



HE002484

2. A calculator like the one shown above is a scientific calculator. It has keys with labels  $Y^x$ ,  $\ln$ ,  $\pi$ ,  $\cos$ . Do you use a scientific calculator for your mathematics schoolwork?

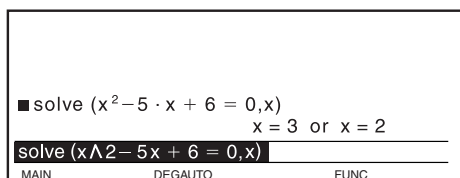
Ⓐ Yes  
Ⓑ No



HE002485

3. A calculator like the one shown above is a graphing calculator. It can draw a graph in the viewing window. Do you use a graphing calculator for your mathematics schoolwork?

Ⓐ Yes  
Ⓑ No



ID110100

4. A calculator that can do what is shown above is called a symbol manipulator or a computer algebra system. It can work with algebraic expressions directly, and it also has all the functions of graphing calculators. Do you use a symbol manipulator for your mathematics schoolwork?

- Ⓐ Yes  
Ⓑ No

LC000518

5. For mathematics class, how often do you use a calculator for each of the following activities? Fill in **one** oval on each line.

	Almost Every Day	Once or Twice a Week	Once or Twice a Month	Never or Hardly Ever
a. Classwork	Ⓐ	Ⓑ	Ⓒ	Ⓓ
b. Homework	Ⓐ	Ⓑ	Ⓒ	Ⓓ

LC000519

LC000520



## Section 2

QK070698

6. How often does your teacher let you use a calculator for tests or quizzes?

- ☐ Ⓐ Always
- ☐ Ⓑ Sometimes
- ☐ Ⓒ Never

TM810601

7. About how much time do you usually spend each **day** on mathematics homework?

- ☐ Ⓐ I am not taking mathematics this year.
- ☐ Ⓑ None
- ☐ Ⓒ 15 minutes
- ☐ Ⓓ 30 minutes
- ☐ Ⓔ 45 minutes
- ☐ Ⓕ One hour
- ☐ Ⓖ More than one hour

HE000659

8. How much do you agree with each of the following statements? Fill in **one** oval on each line.

	Strongly Agree	Agree	Undecided	Disagree	Strongly Disagree	
a. I like mathematics.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	TM810701
b. I am good at mathematics.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	LD001476
c. I understand most of what goes on in mathematics class.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	HE000369
d. There is only one correct way to solve a mathematics problem.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	LD001473
e. Learning mathematics is mostly memorizing facts.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	HE000631
f. Mathematics is useful for solving everyday problems.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	TM810705
g. If I had a choice, I would not study any more mathematics.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	HE000374
h. All students can do well in mathematics if they try.	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	QK070699

ID110164

9. Which courses have you taken from eighth grade to present? You should fill in more than one oval in each row if you have taken a course of that description more than once. If you have never taken a particular course, fill in the oval in the column “Course not taken.” Fill in at least one oval in each row.

	Course not taken	I took this course in Grade 8	I took this course in Grade 9	I took this course in Grade 10	I took this course in Grade 11	I took this course in Grade 12	
a. General mathematics	(A)	(B)	(C)	(D)	(E)	(F)	ID110165
b. Business or consumer mathematics	(A)	(B)	(C)	(D)	(E)	(F)	ID110166
c. Applied mathematics or tech prep	(A)	(B)	(C)	(D)	(E)	(F)	ID110167
d. Introduction to algebra or prealgebra	(A)	(B)	(C)	(D)	(E)	(F)	ID110168
e. First-year algebra	(A)	(B)	(C)	(D)	(E)	(F)	ID110169
f. Geometry	(A)	(B)	(C)	(D)	(E)	(F)	ID110170
g. Second-year algebra, with or without trigonometry included	(A)	(B)	(C)	(D)	(E)	(F)	ID110171
h. Trigonometry (as a separate course)	(A)	(B)	(C)	(D)	(E)	(F)	ID110172
i. Precalculus, third-year algebra, elementary functions, or analysis	(A)	(B)	(C)	(D)	(E)	(F)	ID110173
j. Unified, integrated, or sequential mathematics	(A)	(B)	(C)	(D)	(E)	(F)	ID110174
k. Probability or statistics	(A)	(B)	(C)	(D)	(E)	(F)	ID110175
l. Discrete or finite mathematics	(A)	(B)	(C)	(D)	(E)	(F)	ID110176
m. Calculus	(A)	(B)	(C)	(D)	(E)	(F)	ID110177
n. Other mathematics course	(A)	(B)	(C)	(D)	(E)	(F)	ID110178

## Section 2

ID110202

10. Are you currently enrolled in or have you taken an Advanced Placement course in mathematics? Fill in ovals for all that apply.

- Ⓐ Yes, I am enrolled in or have taken Advanced Placement Calculus AB.
- Ⓑ Yes, I am enrolled in or have taken Advanced Placement Calculus BC.
- Ⓒ Yes, I am enrolled in or have taken Advanced Placement Statistics.
- Ⓓ No, I have never taken an Advanced Placement mathematics course.

QK070703

11. Are you currently enrolled in or have you taken International Baccalaureate courses in mathematics?

- Ⓐ Yes
- Ⓑ No





## SECTION 6

### Section 6

This section has 3 questions. Mark your answers in your booklet. Fill in only **one** oval for each question.

1. How hard did you try on this test?

QK070694

- ☐ Ⓐ Much harder than on other mathematics tests
- ☐ Ⓑ Harder than on other mathematics tests
- ☐ Ⓒ About as hard as on other mathematics tests
- ☐ Ⓓ Not as hard as on other mathematics tests

2. How important was it to you to do well on this mathematics test?

LD001718

- ☐ Ⓐ Very important
- ☐ Ⓑ Important
- ☐ Ⓒ Somewhat important
- ☐ Ⓓ Not very important

3. How strongly do you agree with the following statements? Fill in only **one** oval on each line.

ID110144

- |  | Strongly Agree          | Agree                   | Disagree                | Strongly Disagree       |          |
|--|-------------------------|-------------------------|-------------------------|-------------------------|----------|
| a. Doing well in school is a goal of most students in my class.      | <input type="radio"/> Ⓐ | <input type="radio"/> Ⓑ | <input type="radio"/> Ⓒ | <input type="radio"/> Ⓓ | ID110146 |
| b. To keep up with my friends, I have to work hard at my schoolwork. | <input type="radio"/> Ⓐ | <input type="radio"/> Ⓑ | <input type="radio"/> Ⓒ | <input type="radio"/> Ⓓ | ID110147 |

