



**Mathematics**  
**Student Questionnaire**

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**2015**  
**Grade 12**

# SECTION 3

## Section 3

In this section, please tell us about yourself and your family. Please answer questions about your home based on where you live most of the time during the school year. The section has 15 questions. Mark your answers in your booklet. Fill in only **one** oval for each question except where instructed otherwise.

VB331330

1. Are you Hispanic or Latino? Fill in **one or more ovals**.

- Ⓐ No, I am not Hispanic or Latino.
- Ⓑ Yes, I am Mexican, Mexican American, or Chicano.
- Ⓒ Yes, I am Puerto Rican or Puerto Rican American.
- Ⓓ Yes, I am Cuban or Cuban American.
- Ⓔ Yes, I am from some other Hispanic or Latino background.

VB331331

2. Which of the following best describes you? Fill in **one or more ovals**.

- Ⓐ White
- Ⓑ Black or African American
- Ⓒ Asian
- Ⓓ American Indian or Alaska Native
- Ⓔ Native Hawaiian or other Pacific Islander

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VB331335

3. About how many books are there in your home?

- Ⓐ Few (0–10)
- Ⓑ Enough to fill one shelf (11–25)
- Ⓒ Enough to fill one bookcase (26–100)
- Ⓓ Enough to fill several bookcases (more than 100)

VB331336

4. Is there a computer at home that you use?

- Ⓐ Yes
- Ⓑ No

VF098664

5. Do you have the following in your home? Fill in ovals for **all** that apply.

- Ⓐ Access to the Internet
- Ⓑ Clothes dryer just for your family
- Ⓒ Dishwasher
- Ⓓ More than one bathroom
- Ⓔ Your own bedroom

TB001101

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

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

VB331339

7. How often do you talk about things you have studied in school with someone in your family?

- Ⓐ Never or hardly ever
- Ⓑ Once every few weeks
- Ⓒ About once a week
- Ⓓ Two or three times a week
- Ⓔ Every day

VB331447

8. How many days were you absent from school in the last month?

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



VB330870

9. 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.

VB330871

10. How far in school did your father go?

- Ⓐ 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.

VB331451

11. How often do people in your home talk to each other in a language other than English?

- Ⓐ Never
- Ⓑ Once in a while
- Ⓒ About half of the time
- Ⓓ All or most of the time

VF095730

12. Do the following people live in your home? Fill in ovals for **all** that apply.

- Ⓐ Mother
- Ⓑ Stepmother
- Ⓒ Foster mother or other female legal guardian
- Ⓓ Father
- Ⓔ Stepfather
- Ⓕ Foster father or other male legal guardian

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VF291224

13. During this school year, which of the following have you done? Fill in ovals for **all** that apply.

- Ⓐ Taken the SAT or ACT College Entrance Exams
- Ⓑ Submitted the Free Application for Federal Student Aid (FAFSA)
- Ⓒ Applied to a 2-year college
- Ⓓ Been accepted to a 2-year college
- Ⓔ Applied to a 4-year college
- Ⓕ Been accepted to a 4-year college
- Ⓖ Applied to a certificate or diploma program at a school that provides occupational training (such as electrician, beautician, mechanic, computer programmer, etc.)
- Ⓗ Been accepted to a technical training program
- Ⓘ Talked with a military recruiter
- Ⓝ Enlisted in the military
- Ⓚ Applied for a full-time job
- Ⓛ Been interviewed for a full-time job
- Ⓜ None of the above

HE002549

14. Which of the following best describes your high school program?

- Ⓐ General
- Ⓑ Academic or college preparatory
- Ⓒ Vocational or technical

VE102537

15. Write the ZIP code of your home address in the boxes.

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# SECTION 4

## Section 4

This section has 18 questions. Mark your answers in your booklet. Fill in only **one** oval for each question except where instructed otherwise.

VC298762

1. Which courses have you taken from eighth grade to the present? If you have taken a course more than once, give the **most recent** year you took it. Fill in **one** oval on each line. **INCLUDE** courses taken in summer school, but **DO NOT INCLUDE** topics that were only taught as part of a longer course (such as trigonometry taught in drafting class or computer programming taught in Algebra II).

	I have never taken this course.	I took this course in or before 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. <b>Basic</b> or <b>general</b> mathematics course	(A)	(B)	(C)	(D)	(E)	(F)	VC298769
b. <b>Tech-prep</b> mathematics, <b>business</b> mathematics, <b>consumer</b> mathematics, or other <b>applied mathematics</b> course	(A)	(B)	(C)	(D)	(E)	(F)	VC298847
c. <b>Introduction to algebra</b> or <b>pre-algebra</b> course	(A)	(B)	(C)	(D)	(E)	(F)	VC299007
d. <b>Algebra I</b> course	(A)	(B)	(C)	(D)	(E)	(F)	VC299008
e. <b>Geometry</b> course	(A)	(B)	(C)	(D)	(E)	(F)	VC299009
f. <b>Algebra II</b> course, <b>with or without trigonometry</b>	(A)	(B)	(C)	(D)	(E)	(F)	VC299010
g. <b>Trigonometry</b> (as a separate course)	(A)	(B)	(C)	(D)	(E)	(F)	VC299012
h. <b>Pre-calculus</b> course (also called introductory analysis)	(A)	(B)	(C)	(D)	(E)	(F)	VE593389
i. <b>Integrated</b> mathematics 1 (first year of a multi-year course)	(A)	(B)	(C)	(D)	(E)	(F)	VF269035
j. <b>Integrated</b> mathematics 2 (second year of a multi-year course)	(A)	(B)	(C)	(D)	(E)	(F)	VF269036

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	I have never taken this course.	I took this course in or before 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.	
k. <b>Integrated</b> mathematics 3 (third year of a multi-year course)	(A)	(B)	(C)	(D)	(E)	(F)	VF269037
l. <b>Integrated</b> mathematics 4 (fourth year of a multi-year course)	(A)	(B)	(C)	(D)	(E)	(F)	VF269038
m. <b>Probability or statistics</b> course	(A)	(B)	(C)	(D)	(E)	(F)	VC299032
n. <b>Calculus</b> course	(A)	(B)	(C)	(D)	(E)	(F)	VC299033
o. <b>Computer programming</b> course (such as C++, Visual Basic, etc.)	(A)	(B)	(C)	(D)	(E)	(F)	VE593398
p. <b>Other</b> mathematics course (specify): _____ _____	(A)	(B)	(C)	(D)	(E)	(F)	VE593395



VE593403

2. Are you currently enrolled in or have you taken any of the following Advanced Placement (AP®) courses? Fill in ovals for **all** that apply.

- Ⓐ Yes, I am enrolled in or have taken Advanced Placement (AP) Calculus AB.
- Ⓑ Yes, I am enrolled in or have taken Advanced Placement (AP) Calculus BC.
- Ⓒ Yes, I am enrolled in or have taken Advanced Placement (AP) Statistics.
- Ⓓ No, I have not taken any of the courses listed above.

VE593756

3. Are you currently enrolled in or have you taken an International Baccalaureate® (IB) mathematics course?

- Ⓐ Yes
- Ⓑ No

VB543297

4. Are you currently enrolled in or have you taken any **online** mathematics courses for **high school or college credit**?

- Ⓐ Yes
- Ⓑ No

VC288225

5. Was there a mathematics course that you would have liked to have taken this school year but did not take?

- Ⓐ Yes, but my school does not offer the course.
- Ⓑ Yes, but the course was full.
- Ⓒ Yes, but I did not have the necessary prerequisites.
- Ⓓ Yes, but my schedule was full.
- Ⓔ No, there was no other course that I wanted to take.

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VC189706

6. Please indicate how much you DISAGREE or AGREE with the following statements. Fill in **one** oval on each line.

- |   | Strongly<br>disagree | Disagree | Agree | Strongly<br>agree |          |
|---|----------------------|----------|-------|-------------------|----------|
| a. Mathematics is one of my favorite subjects.                        | Ⓐ                    | Ⓑ        | Ⓒ     | Ⓓ                 | VC189711 |
| b. I take mathematics because it will help me in the future.          | Ⓐ                    | Ⓑ        | Ⓒ     | Ⓓ                 | VC189713 |
| c. I take mathematics to meet my high school graduation requirements. | Ⓐ                    | Ⓑ        | Ⓒ     | Ⓓ                 | VE634987 |

VB517284

7. Are you currently taking a mathematics course?

- Ⓐ Yes → Go to Question 8.
- Ⓑ No → Skip to Question 15.

VE634875

8. How often do you receive help or tutoring with mathematics outside of your regular mathematics class?

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

VC497572

9. How often do you feel the following way in your mathematics class? Fill in **one** oval on each line.

- |  | Never<br>or hardly<br>ever | Sometimes | Often | Always<br>or almost<br>always |          |
|--|----------------------------|-----------|-------|-------------------------------|----------|
| a. I have a clear understanding of what my mathematics teacher is asking me to do. | Ⓐ                          | Ⓑ         | Ⓒ     | Ⓓ                             | VC497573 |
| b. The mathematics work is too easy.   | Ⓐ                          | Ⓑ         | Ⓒ     | Ⓓ                             | VC497574 |
| c. The mathematics work is challenging.  | Ⓐ                          | Ⓑ         | Ⓒ     | Ⓓ                             | VC497575 |
| d. The mathematics work is engaging and interesting.                               | Ⓐ                          | Ⓑ         | Ⓒ     | Ⓓ                             | VC497576 |
| e. I am learning mathematics.  | Ⓐ                          | Ⓑ         | Ⓒ     | Ⓓ                             | VE593449 |

VB517159

10. How often do you use these different types of calculators in your mathematics class? Fill in **one** oval on each line.

	Never Use	Sometimes, but not often	Usually use	
a. Basic four-function (addition, subtraction, multiplication, division)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB517160
b. Scientific (not graphing)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB517161
c. Graphing	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	VB517282

VE593461

11. How often do you use a calculator to perform the following tasks for the mathematics course you are currently taking? Fill in **one** oval on each line.

	Never or hardly ever	Sometimes	Often	Always or almost always	
a. To perform basic numeric operations	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE593464
b. To graph equations or inequalities	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE593465
c. To evaluate functions (e.g., exponential, logarithmic, trigonometric)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE593466
d. To calculate probabilities or statistical measures	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE593467
e. To create statistical representations (charts and graphs, etc.)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE593469
f. To use a computer algebra system (CAS)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE593471
g. To perform matrix operations	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE593472
h. To perform business/financial calculations	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE593473
i. To explore geometric concepts	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE593474

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VB517158

12. When you take a mathematics test or quiz, how often do you use a calculator?

- Ⓐ Never
- Ⓑ Sometimes
- Ⓒ Always

VB543155

13. When you are doing mathematics for school or homework, how often do you use these **different types of computer programs**? Fill in **one** oval on each line.

	Never or hardly ever	Once every few weeks	About once a week	Two or three times a week	Every day or almost every day	
a. A spreadsheet program	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	VF094885
b. A database program	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	VF094889
c. A mathematics tutorial program	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	VE593747
d. A graphing program	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	VE593748
e. A statistical program	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	VE593749
f. A dynamic geometry program	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	VE593753
g. A computer algebra system (CAS)	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	<input type="radio"/> Ⓒ	<input type="radio"/> Ⓓ	<input type="radio"/> Ⓔ	VE593754

VC189613

14. How often do you use e-mail, instant messages, blogs, or text messages to do any of the following? Fill in **one** oval on each line.

- |   | Never<br>or hardly<br>ever | Once<br>every few<br>weeks | About<br>once a<br>week | Two or<br>three times<br>a week | Every day or<br>almost<br>every day |          |
|---|----------------------------|----------------------------|-------------------------|---------------------------------|-------------------------------------|----------|
| a. Talk online with friends about mathematics work  | <input type="radio"/> Ⓐ    | <input type="radio"/> Ⓑ    | <input type="radio"/> Ⓒ | <input type="radio"/> Ⓓ         | <input type="radio"/> Ⓔ             | VC299268 |
| b. Get help with mathematics from someone other than your teacher, family, classmates, or friends | <input type="radio"/> Ⓐ    | <input type="radio"/> Ⓑ    | <input type="radio"/> Ⓒ | <input type="radio"/> Ⓓ         | <input type="radio"/> Ⓔ             | VC189627 |

VE593425

15. What kind of calculator did you use for this test?

- Ⓐ I did not use a calculator for this test.
- Ⓑ NAEP-provided scientific calculator
- Ⓒ Scientific (not graphing) calculator
- Ⓓ Graphing calculator (with or without a computer algebra system [CAS])

VB595182

16. How hard was this test compared to most other tests you have taken this year in school?

- Ⓐ Easier than other tests
- Ⓑ About as hard as other tests
- Ⓒ Harder than other tests
- Ⓓ Much harder than other tests

VC034559

17. How hard did you try on this test compared to how hard you tried on most other tests you have taken this year in school?

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

VB595184

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

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

