



Mathematics Student Questionnaire

**2024
Grade 12**

VH260313

1. How easy or difficult was this test?

- Ⓐ Extremely difficult
- Ⓑ Quite difficult
- Ⓒ Somewhat difficult
- Ⓓ Somewhat easy
- Ⓔ Quite easy
- Ⓕ Extremely easy

VH333658

2. How much effort did you apply to succeed on this test?

- Ⓐ No effort at all
- Ⓑ Very little effort
- Ⓒ Some effort
- Ⓓ Quite a bit of effort
- Ⓔ A lot of effort

VH240387

3. Are you Hispanic or Latino? Select **one or more** answer choices.

- Ⓐ 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.

VH240388

4. Which of the following best describes you? Select **one or more** answer choices.

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

VH240186

5. 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)

VH271104

6. Do you have any of the following in your home? Select **one** answer choice on each row.

	Yes	No	
a. Access to the Internet	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	VH271105
b. Your own bedroom	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	VH336762
c. A desktop or laptop computer (including Chromebooks) that you can use	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	VH591976
d. A tablet (for example, Surface Pro, iPad, Kindle Fire) that you can use	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	VH271110
e. A smartphone (for example, iPhone, Samsung Galaxy, HTC One) that you can use	<input type="radio"/> Ⓐ	<input type="radio"/> Ⓑ	VH271112

VH354591

7. How often do you use the Internet for homework at home?

- Ⓐ Never
- Ⓑ About once or twice a month
- Ⓒ About once or twice a week
- Ⓓ Almost every day
- Ⓔ Every day

VH240190

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

VH240189

9. 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

VH240192

10. 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.

VH240193

11. 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.

VH336776

12. Does **your mother** work?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

VH336779

13. Does **your father** work?

- Ⓐ Yes
- Ⓑ No
- Ⓒ I don't know.

VH271144

14. Do any of the following people live in your home? Select **one** answer choice on each row.

	Yes	No	
a. Mother	<input type="radio"/> A	<input type="radio"/> B	VH271145
b. Stepmother	<input type="radio"/> A	<input type="radio"/> B	VH271146
c. Foster mother or other female legal guardian	<input type="radio"/> A	<input type="radio"/> B	VH271147
d. Father	<input type="radio"/> A	<input type="radio"/> B	VH271148
e. Stepfather	<input type="radio"/> A	<input type="radio"/> B	VH271149
f. Foster father or other male legal guardian	<input type="radio"/> A	<input type="radio"/> B	VH271150

VH591969

15. In this school year, how often did you use a **laptop or desktop computer** (including Chromebooks) during your classes at school?

- ☐ A Never
- ☐ B In some classes
- ☐ C In about half of the classes
- ☐ D In more than half of the classes
- ☐ E In all or almost all classes

VH271276

16. In this school year, how often did you use a **tablet** (for example, Surface Pro, iPad, Kindle Fire) during your classes at school?

- ☐ A Never
- ☐ B In some classes
- ☐ C In about half of the classes
- ☐ D In more than half of the classes
- ☐ E In all or almost all classes

VH852900

17. Are you taking an art course this school year (for example, drawing, painting, or studio art)?

- ☐ Yes
☐ No

VH740697

18. During this school year, which of the following have you done? Select **one** answer choice on each row.

	Yes	No	
a. Taken the SAT or ACT College Entrance Exams	<input type="radio"/>	<input type="radio"/>	VH740702
b. Submitted the Free Application for Federal Student Aid (FAFSA)	<input type="radio"/>	<input type="radio"/>	VH740703
c. Applied to a 2-year college	<input type="radio"/>	<input type="radio"/>	VH740704
d. Been accepted to a 2-year college	<input type="radio"/>	<input type="radio"/>	VH740705
e. Applied to a 4-year college	<input type="radio"/>	<input type="radio"/>	VH740706
f. Been accepted to a 4-year college	<input type="radio"/>	<input type="radio"/>	VH740708
g. Applied to a certificate or diploma program at a school that provides occupational training (such as electrician, beautician, mechanic, computer programmer, etc.)	<input type="radio"/>	<input type="radio"/>	VH740709
h. Been accepted to a technical training program	<input type="radio"/>	<input type="radio"/>	VH740710
i. Talked with a military recruiter	<input type="radio"/>	<input type="radio"/>	VH740711
j. Enlisted in the military	<input type="radio"/>	<input type="radio"/>	VH740712
k. Applied for a full-time job	<input type="radio"/>	<input type="radio"/>	VH740713
l. Been interviewed for a full-time job	<input type="radio"/>	<input type="radio"/>	VH740714

VH240194

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

- ☐ General
☐ Academic or college preparatory
☐ Vocational or technical

VR740539

20. Thinking about **this school year**, do you think you can do each of the following? Select **one** answer choice on each row.

	I definitely can't	I probably can't	Maybe	I probably can	I definitely can	
a. Learn what you need to learn in your mathematics class	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VR740540
b. Know how to get the help you need for your mathematics class	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VR740541

VR740556

21. Did you receive any tutoring in mathematics **this school year**?

- ☐ A Yes
☐ B No

VR740558

22. To what extent did your mathematics tutor make it easier for you to understand what you were learning?

- ☐ A Not at all
☐ B A little bit
☐ C Somewhat
☐ D Quite a bit
☐ E A lot

23. How easy was it for you to understand the material in your mathematics tutoring sessions?

- Ⓐ Not at all easy
- Ⓑ A little easy
- Ⓒ Somewhat easy
- Ⓓ Very easy
- Ⓔ Extremely easy

24. How much does each of the following statements describe you? Select **one** answer choice on each row.

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a. I finish whatever I begin.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733142
b. I try very hard even after making mistakes.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733143
c. I keep working hard even when I feel like quitting.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733145
d. I keep trying to improve myself, even when it takes a long time to get there.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH733144

25. How much does each of the following statements describe you? Select **one** answer choice on each row.

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Very much like me	
a. I like complex problems more than easy problems.	(A)	(B)	(C)	(D)	(E)	VH733150
b. I like activities that challenge my thinking abilities.	(A)	(B)	(C)	(D)	(E)	VH733151
c. I enjoy situations where I will have to think about something.	(A)	(B)	(C)	(D)	(E)	VH733155
d. I enjoy thinking about new solutions to problems.	(A)	(B)	(C)	(D)	(E)	VH733154

26. In this school year, how often have you felt any of the following ways about your school? Select **one** answer choice on each row.

	Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time	
a. I felt awkward and out of place at school.	(A)	(B)	(C)	(D)	(E)	VH271942
b. I felt happy at school.	(A)	(B)	(C)	(D)	(E)	VH271944
c. I felt that I learned something that I can use in my daily life.	(A)	(B)	(C)	(D)	(E)	VH336903

27. How much does each of the following statements describe the teachers at your school this year? Select **one** answer choice on each row.

	Not at all like the teachers at my school	A little bit like the teachers at my school	Quite a bit like the teachers at my school	Exactly like the teachers at my school	
a. Teachers care about the students.	(A)	(B)	(C)	(D)	VR730781
b. Students feel comfortable talking with their teachers.	(A)	(B)	(C)	(D)	VR730782
c. Teachers expect students to do well.	(A)	(B)	(C)	(D)	VR730783
d. Teachers are available when students need them.	(A)	(B)	(C)	(D)	VR730784
e. Teachers try to understand students' problems.	(A)	(B)	(C)	(D)	VR730785
f. Teachers notice if I need help.	(A)	(B)	(C)	(D)	VR730786
g. Teachers treat all students respectfully.	(A)	(B)	(C)	(D)	VR730787

28. 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. **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). Select **one** answer choice on each row.

	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. Basic or general mathematics course	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH240820
b. Tech-prep mathematics, business mathematics, consumer mathematics, or other applied mathematics course	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH240844
c. Introduction to algebra or pre-algebra course	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH240822
d. Algebra I course	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH240823
e. Geometry course	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH240824
f. Algebra II course, with or without trigonometry	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH240825
g. Trigonometry (as a separate course)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH240826
h. Pre-calculus course (also called introductory analysis)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH240833
i. Integrated mathematics 1 (first year of a multi-year course)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH240841
j. Integrated mathematics 2 (second year of a multi-year course)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH240842
k. Integrated mathematics 3 (third year of a multi-year course)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH240843

	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.	
l. Integrated mathematics 4 (fourth year of a multi-year course)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH240821
m. Probability or statistics course	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH240836
n. Calculus course	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH240829
o. Computer programming course (such as C++, Visual Basic, etc.)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VH240835

VH250444

29. Are you currently enrolled in or have you taken any of the following Advanced Placement (AP[®]) courses? Select **all** that apply.

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

VH240048

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

- ☐ A Yes
- ☐ B No

VH240049

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

- Ⓐ Yes
- Ⓑ No

VH240050

32. 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.

VH240051

33. Are you currently taking a mathematics course?

- Ⓐ Yes
- Ⓑ No

VH350115

34. For school this year, how often have you been asked to write long answers (several sentences or paragraphs) to questions on tests or assignments that involved math?

- Ⓐ Never
- Ⓑ Once
- Ⓒ Two or three times
- Ⓓ Four or five times
- Ⓔ More than five times

35. In your math class this year, how often have you used the following types of calculators? Select **one** answer choice on each row.

	Never or hardly ever	Less than half of the time	About half of the time	More than half of the time	All or almost all of the time	
a. Basic calculator	(A)	(B)	(C)	(D)	(E)	VH266809
b. Scientific (not graphing) calculator	(A)	(B)	(C)	(D)	(E)	VR191495
c. Graphing calculator	(A)	(B)	(C)	(D)	(E)	VH266810

36. In this school year, how often have you used a computer or other digital device (excluding handheld calculators) to look online for resources for help with your math assignments?

- (A) Never
- (B) About once or twice a year
- (C) About once or twice a month
- (D) About once or twice a week
- (E) Every day or almost every day

VH845110

37. How much does each of the following statements describe you? Select **one** answer choice on each row.

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a. I want to learn as much as possible in my math class.	(A)	(B)	(C)	(D)	(E)	VH845117
b. I want to master a lot of new skills in my math class.	(A)	(B)	(C)	(D)	(E)	VH845114
c. I want to become better in math this year.	(A)	(B)	(C)	(D)	(E)	VH845115
d. I want to understand as much as I can in my math class.	(A)	(B)	(C)	(D)	(E)	VH845118

VH613511

38. Thinking about math, do you think that you would be able to do each of the following? Do not actually solve the problems. Select **one** answer choice on each row.

	I definitely can't	I probably can't	Maybe	I probably can	I definitely can	
a. Create an expression that represents the average number of miles you run in a week if you run 100 miles in w weeks	(A)	(B)	(C)	(D)	(E)	VH460383
b. Determine a 20 percent tip of a 67-dollar restaurant dinner bill	(A)	(B)	(C)	(D)	(E)	VH267679
c. Describe the properties shared by every isosceles right triangle	(A)	(B)	(C)	(D)	(E)	VH267681

39. Thinking about math, do you think that you would be able to do each of the following? Select **one** answer choice on each row.

	I definitely can't	I probably can't	Maybe	I probably can	I definitely can	
a. Decide if your classmate's math work is correct	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH460398
b. Give an example to show that a math statement is false	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH460399
c. Explain to your classmate how you solved a math problem	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH460910
d. Use correct mathematical words and symbols when showing your work	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH460902
e. Use definitions of geometric shapes to support an argument	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH460912

40. How much does each of the following statements describe you? Select **one** answer choice on each row.

	Not at all like me	A little bit like me	Somewhat like me	Quite a bit like me	Exactly like me	
a. I enjoy doing math.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH731853
b. I look forward to my math class.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH731854
c. I am interested in the things I learn in math.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH731858
d. I think making an effort in math is worthwhile.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH731855
e. I think math will help me even when I am not in school.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH731860
f. I think it is important to do well in math.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH731857
g. I take mathematics because it will help me in the future.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH731859
h. I take mathematics to meet my high school graduation requirements.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH731856

41. How much do you enjoy each of the following types of math activities? Select **one** answer choice on each row.

	Enjoy not at all	Enjoy a little bit	Enjoy somewhat	Enjoy quite a bit	Enjoy a lot	
a. Solving equations or simplifying expressions	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH860653
b. Constructing and building different types of graphs (for example, bar graph, line graph, or box and whisker plots)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH860651
c. Working with geometric figures like rectangles and squares	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	VH860652

42. How often do you use math in everyday life **outside of school**?

- ☐ A Never
- ☐ B About once or twice a year
- ☐ C About once or twice a month
- ☐ D About once or twice a week
- ☐ E Every day or almost every day