



Mathematics Student Questionnaire

**2017
Grade 8
(Pilot)**

Pilot

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1. What math class are you taking this year? Select **one or more** answer choices.

- Ⓐ Eighth-grade math
- Ⓑ General eighth-grade math
- Ⓒ Algebra I course
- Ⓓ First year of a two-year algebra course
- Ⓔ Second year of a two-year algebra course
- Ⓕ Algebra I (one-year course)
- Ⓖ Algebra II
- Ⓗ Geometry
- Ⓙ Other

2. What math class do you expect to take next year?

- Ⓐ Geometry
- Ⓑ Algebra II
- Ⓒ Algebra I (one-year course)
- Ⓓ First year of a two-year Algebra I course
- Ⓔ Second year of a two-year Algebra I course
- Ⓕ Introduction to algebra or pre-algebra
- Ⓖ Basic or general math
- Ⓗ Business or consumer math
- Ⓙ Other math class
- Ⓚ I don't know.

3. 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

4. For school this year, how often do you work in pairs or small groups to talk about something that you have done in math?
- Ⓐ Never
 - Ⓑ About once or twice a year
 - Ⓒ About once or twice a month
 - Ⓓ About once or twice a week
 - Ⓔ Every day or almost every day

5. How often do you use a computer or other digital device (excluding handheld calculators) for math **at school**?
- Ⓐ Never
 - Ⓑ About once or twice a year
 - Ⓒ About once or twice a month
 - Ⓓ About once or twice a week
 - Ⓔ Every day or almost every day

6. How often do you receive help or tutoring with math **outside of school or after school**?
- Ⓐ Never
 - Ⓑ About once or twice a year
 - Ⓒ About once or twice a month
 - Ⓓ About once or twice a week
 - Ⓔ Every day or almost every day

7. 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. Graphing calculator	(A)	(B)	(C)	(D)	(E)	VH266810

8. This school year, how often did the following things happen in your math class? 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. My teacher used computers or other digital devices to show us how to work through math problems.	(A)	(B)	(C)	(D)	(E)	VH267416
b. I used the Internet for my math work.	(A)	(B)	(C)	(D)	(E)	VH267417
c. My teacher used computers or other digital devices when teaching math to my class.	(A)	(B)	(C)	(D)	(E)	VH588077
d. My teacher required us to use computers or other digital devices to complete math assignments.	(A)	(B)	(C)	(D)	(E)	VH267419

9. In this school year, how often have you used a computer or other digital device (excluding handheld calculators) to complete your math assignments?

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

10. 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?

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

11. In this school year, how often have you used a computer or other digital device (excluding handheld calculators) to take an online practice test?

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

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

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

13. How often do you participate in each of the following activities **outside of school**? Select **one** answer choice on each row.

	Never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	
a. Talk about math problems with your friends	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268946
b. Program computers	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268949
c. Play an instrument and read music	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268961
d. Go to websites for help with your math homework	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268962

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14. Have you ever helped your friends with their math homework?

- Ⓐ Yes
- Ⓑ No

15. Over the past seven days, how many days have you helped your friends with their math homework? Enter the number of days.

16. 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. Estimate the weight of 5 apples using pounds (lbs.)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267674
b. Divide 42 stickers among 6 students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH617317
c. Determine a 20 percent tip of a 67-dollar restaurant dinner bill	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267679
d. Describe the properties shared by every isosceles right triangle	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267681
e. Find the amount of carpet needed to cover a rectangular floor if you know its length and width	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267682
f. Know when to take a turkey out of the oven if it goes in at 10:00 A.M. and it takes 3 hours and 45 minutes to cook	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH267683

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17. How much does each of the following statements describe a person like 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 other students to think I am good at math.	(A)	(B)	(C)	(D)	(E)	VH269049
b. I want to show others that my math schoolwork is easy for me.	(A)	(B)	(C)	(D)	(E)	VH269050
c. I want to look smart in comparison to the other students in my math class.	(A)	(B)	(C)	(D)	(E)	VH269053
d. I want to learn as much as possible in my math class.	(A)	(B)	(C)	(D)	(E)	VH269059
e. I want to become better in math this year.	(A)	(B)	(C)	(D)	(E)	VH269056
f. I want to understand as much as I can in my math class.	(A)	(B)	(C)	(D)	(E)	VH269060

18. How much does each of the following statements describe a person like 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.	(A)	(B)	(C)	(D)	(E)	VH267479
b. I look forward to my math class.	(A)	(B)	(C)	(D)	(E)	VH267481
c. I am interested in the things I learn in math.	(A)	(B)	(C)	(D)	(E)	VH617324
d. I think making an effort in math is worthwhile.	(A)	(B)	(C)	(D)	(E)	VH267485
e. I think math will help me even when I am not in school.	(A)	(B)	(C)	(D)	(E)	VH267486
f. I think it is important to do well in math.	(A)	(B)	(C)	(D)	(E)	VH267487

19. How much do you enjoy solving each of the following types of math problems? 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. Addition, subtraction, multiplication, and division	(A)	(B)	(C)	(D)	(E)	VH267499
b. Finding areas of shapes and figures	(A)	(B)	(C)	(D)	(E)	VH267501
c. Solving for probabilities and events (for example, card, coin, marble, and spinner problems)	(A)	(B)	(C)	(D)	(E)	VH267502
d. Solving equations or simplifying expressions	(A)	(B)	(C)	(D)	(E)	VH267503
e. Constructing and building different types of graphs (for example, bar graph, line graph, or box and whisker plots)	(A)	(B)	(C)	(D)	(E)	VH267504
f. Working with geometric figures like rectangles and squares	(A)	(B)	(C)	(D)	(E)	VH267505

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20. How often do you play digital games (for example, apps, video games, or computer games) **outside of school** that involve math?

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

21. How often do you use a computer, tablet, smartphone, or gaming console **outside of school** to play **educational games** that involve math?

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

22. How often do you use a computer, tablet, smartphone, or gaming console **outside of school** to play **popular games** that involve math?

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

23. 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 a bar graph to represent the number of desks, chairs, and tables in your classroom	(A)	(B)	(C)	(D)	(E)	VH460348
b. Use a box plot to represent the height, in inches, of all of the students in your class	(A)	(B)	(C)	(D)	(E)	VH460355
c. Determine the probability of picking a blue marble without looking if you know the number of marbles of each color in a bag	(A)	(B)	(C)	(D)	(E)	VH460381
d. List all of the different possible outcomes when a coin is flipped three times	(A)	(B)	(C)	(D)	(E)	VH460382

24. 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. Create an expression to show how old you will be in n years if you are 8 years old today	(A)	(B)	(C)	(D)	(E)	VH460386
c. Create an expression that shows the number of wheels on n wagons if each wagon has 4 wheels	(A)	(B)	(C)	(D)	(E)	VH460389
d. Explain how you know the number of books you can buy if you know the price of each book and you have \$35	(A)	(B)	(C)	(D)	(E)	VH460391

25. 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	(A)	(B)	(C)	(D)	(E)	VH460398
b. Give an example to show that a math statement is false	(A)	(B)	(C)	(D)	(E)	VH460399
c. Explain to your classmate how you solved a math problem	(A)	(B)	(C)	(D)	(E)	VH460910
d. Use correct mathematical words and symbols to communicate ideas about math	(A)	(B)	(C)	(D)	(E)	VH460900
e. Use correct mathematical words and symbols when showing your work	(A)	(B)	(C)	(D)	(E)	VH460902
f. Use definitions of geometric shapes to support an argument	(A)	(B)	(C)	(D)	(E)	VH460912

VH460923

26. Have you ever participated in a math study group **outside of school**?

- A Yes
 B No

VH460925

27. Over the past seven days, how many days have you participated in a math study group **outside of school**? Enter the number of days.

VH460401

28. Have you ever participated in a math study group **at school**?

- A Yes
 B No

VH460877

29. Over the past seven days, how many days have you participated in a math study group **at school**? Enter the number of days.