



# Mathematics Student Questionnaire

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**2016  
Grade 8  
(Pilot)**

**Pilot**

NOTE: These items are being pilot tested in 2016 for possible inclusion in the 2017 NAEP operational assessment. Some items that are pilot tested may not be included in the final assessment. A pilot is a pretest that occurs prior to an assessment. Individual students will receive a subset of these 2016 pilot questions.

1. How often do you use a computer or other digital device (excluding hand-held 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

2. 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

3. How often do you receive help or tutoring with math outside of school or after school?

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

4. 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

5. 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.

6. When you are doing math for school or homework, how often do you use these different types of computer programs? Select one answer choice on each row.

	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 for math class assignments	(A)	(B)	(C)	(D)	(E)	VH240802
b. A program to practice or drill on math facts (addition, subtraction, multiplication, division)	(A)	(B)	(C)	(D)	(E)	VH240785
c. A program that presents new math lessons with problems to solve	(A)	(B)	(C)	(D)	(E)	VH240787
d. A calculator program to solve or check problems for math class	(A)	(B)	(C)	(D)	(E)	VH240788
e. A graphing program to make charts or graphs for math class	(A)	(B)	(C)	(D)	(E)	VH240789
f. A statistical program to calculate patterns such as correlations or cross tabulations	(A)	(B)	(C)	(D)	(E)	VH240791
g. A word processing program to write papers for math class	(A)	(B)	(C)	(D)	(E)	VH240783
h. A program to work with geometric shapes for math class	(A)	(B)	(C)	(D)	(E)	VH240792
i. The Internet to learn things for math class	(A)	(B)	(C)	(D)	(E)	VH240786

7. How often do you use e-mail, instant messages, blogs, or text messages to do any of the following? Select **one** answer choice on each row.

	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. Talk online with friends about math work	(A)	(B)	(C)	(D)	(E)	VH240805
b. Get help with math from someone other than your teacher, family, classmates, or friends	(A)	(B)	(C)	(D)	(E)	VH240806

8. This school year, how often do you use the following digital devices to work on math problems, including homework? 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. Hand-held calculator	(A)	(B)	(C)	(D)	(E)	VH266782
b. Desktop or laptop computer	(A)	(B)	(C)	(D)	(E)	VH266783
c. Tablet (for example, Surface Pro, iPad, Kindle Fire)	(A)	(B)	(C)	(D)	(E)	VH266786
d. Smartphone (for example, iPhone, Samsung Galaxy, HTC One)	(A)	(B)	(C)	(D)	(E)	VH266788
e. Other device (Please specify): _____	(A)	(B)	(C)	(D)	(E)	VH266789

9. 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
c. Calculator app on a smartphone	(A)	(B)	(C)	(D)	(E)	VH266811
d. Calculator on a tablet	(A)	(B)	(C)	(D)	(E)	VH266812
e. Calculator on a desktop or laptop computer	(A)	(B)	(C)	(D)	(E)	VH266813

10. 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 desktop or laptop computers when teaching math to my class.	(A)	(B)	(C)	(D)	(E)	VH267418
d. My teacher required us to use computers or other digital devices to complete math assignments.	(A)	(B)	(C)	(D)	(E)	VH267419

11. In this school year, how often have you used a computer or other digital device (excluding hand-held 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

12. In this school year, how often have you used a computer or other digital device (excluding hand-held 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

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

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

14. 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 learned in math.	(A)	(B)	(C)	(D)	(E)	VH267483
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

15. 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
g. Looking at patterns, graphs, and charts	(A)	(B)	(C)	(D)	(E)	VH267507

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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)	(A)	(B)	(C)	(D)	(E)	VH267674
b. Divide 42 stickers by 6 students	(A)	(B)	(C)	(D)	(E)	VH267675
c. Calculate how many square feet of tile you need to cover your classroom floor	(A)	(B)	(C)	(D)	(E)	VH267676
d. Determine a 20 percent tip of a 67 dollar restaurant dinner bill	(A)	(B)	(C)	(D)	(E)	VH267679
e. Estimate the area of your classroom floor using square feet	(A)	(B)	(C)	(D)	(E)	VH267680
f. Describe the properties shared by every isosceles right triangle	(A)	(B)	(C)	(D)	(E)	VH267681
g. Find the amount of carpet needed to cover a rectangular floor if you know its length and width	(A)	(B)	(C)	(D)	(E)	VH267682
h. 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	(A)	(B)	(C)	(D)	(E)	VH267683

17. Thinking about math, do you think that you would be able to do each of the following **without a calculator**? 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)	(A)	(B)	(C)	(D)	(E)	VH336062
b. Divide 42 stickers by 6 students	(A)	(B)	(C)	(D)	(E)	VH336063
c. Calculate how many square feet of tile you need to cover your classroom floor	(A)	(B)	(C)	(D)	(E)	VH336064
d. Determine a 20 percent tip of a 67 dollar restaurant dinner bill	(A)	(B)	(C)	(D)	(E)	VH336067
e. Estimate the area of your classroom floor using square feet	(A)	(B)	(C)	(D)	(E)	VH336068
f. Describe the properties shared by every isosceles right triangle	(A)	(B)	(C)	(D)	(E)	VH336069
g. Find the amount of carpet needed to cover a rectangular floor if you know its length and width	(A)	(B)	(C)	(D)	(E)	VH336070
h. 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	(A)	(B)	(C)	(D)	(E)	VH336066

18. 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

19. 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. Attend after-school tutoring with other students	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268958
d. Play an instrument and read music	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268961
e. Go to websites for help with your math homework	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VH268962

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

- Ⓐ Yes
- Ⓑ No

VH269037

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

VH269015

22. Have you ever participated in a summer program for math?

- Ⓐ Yes  
Ⓑ No

VH269016

23. Last summer, did you participate in a summer program for math?

- Ⓐ Yes  
Ⓑ No

VH336087

24. Have you ever participated in a math study group?

- Ⓐ Yes  
Ⓑ No

VH269039

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

26. 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 master a lot of new skills in my math class.	(A)	(B)	(C)	(D)	(E)	VH269055
e. I want to become better in math this year.	(A)	(B)	(C)	(D)	(E)	VH269056
f. I want to get better grades than most other students in my math class.	(A)	(B)	(C)	(D)	(E)	VH269058
g. I want to learn as much as possible in my math class.	(A)	(B)	(C)	(D)	(E)	VH269059
h. I want to understand as much as I can in my math class.	(A)	(B)	(C)	(D)	(E)	VH269060
i. I want to pass my math class.	(A)	(B)	(C)	(D)	(E)	VH327502
j. I want to get good grades in my math class.	(A)	(B)	(C)	(D)	(E)	VH327503
k. I want to hide how nervous I am about math.	(A)	(B)	(C)	(D)	(E)	VH327504
l. I want to avoid making mistakes in front of my classmates in my math class.	(A)	(B)	(C)	(D)	(E)	VH327505

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27. In your math class this school year, how often have you done each of the following? 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 came to my math class prepared.	(A)	(B)	(C)	(D)	(E)	VH336093
b. I remembered and followed directions from my math teacher.	(A)	(B)	(C)	(D)	(E)	VH336094
c. I started working on my math assignments right away rather than waiting until the last minute.	(A)	(B)	(C)	(D)	(E)	VH336095
d. I paid attention and resisted distractions during math class.	(A)	(B)	(C)	(D)	(E)	VH336096
e. I stayed on task without reminders from my math teacher.	(A)	(B)	(C)	(D)	(E)	VH336097
f. I paid attention in my math class even when I was not interested.	(A)	(B)	(C)	(D)	(E)	VH336099

28. 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.

29. 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

30. 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

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

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

32. How easy or difficult was this test?

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

33. How many questions do you think you answered correctly on this test?

- Ⓐ None or almost none
- Ⓑ Some but less than half
- Ⓒ About half
- Ⓓ More than half but not all
- Ⓔ All or almost all

34. How similar were the questions on this test to the questions on your **math** quizzes and tests at school?

- Ⓐ Not similar at all
- Ⓑ Not similar
- Ⓒ Somewhat similar
- Ⓓ Quite similar
- Ⓔ Extremely similar

35. How much do you agree with each of the following statements? Select **one** answer choice on each row.

	Strongly disagree	Disagree	Somewhat disagree	Somewhat agree	Agree	Strongly agree	
a. I applied a lot of effort to succeed on this test.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH260334
b. Taking this test was stressful.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH260335
c. Taking this test was challenging.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH260336
d. I felt time pressure when taking this test.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	VH260338

36. 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

37. How stressful was taking this test?

- Ⓐ Not stressful at all
- Ⓑ A little stressful
- Ⓒ Somewhat stressful
- Ⓓ Quite stressful
- Ⓔ Extremely stressful

38. How challenging was taking this test?

- Ⓐ Not challenging at all
- Ⓑ A little challenging
- Ⓒ Somewhat challenging
- Ⓓ Quite challenging
- Ⓔ Extremely challenging

39. How much time pressure did you feel when taking this test?

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

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