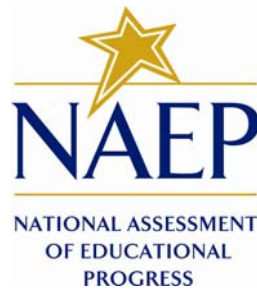


# NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

## *Wave 2 Submittal for 2013* **VOLUME II** ***BACKGROUND QUESTIONS***

### **Part 3a** **Student Grade 12 Core**



*Part 3a contains:*

Student Grade 12 Core Questions

*The amount of time estimated to complete this form is 5 minutes.*

# 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

Section 3

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

Section 3

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.

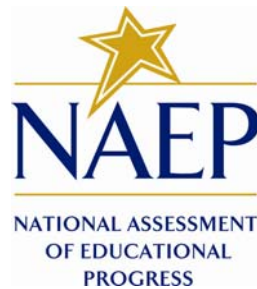
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# NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

## *Wave 2 Submittal for 2013* **VOLUME II** ***BACKGROUND QUESTIONS***

### **Part 3b** **Student Grade 12 Reading (Operational)**



*Part 3b contains:*

Student Grade 12 Reading Questions (Operational)

*The amount of time estimated to complete this form is 10 minutes.*

# SECTION 4

## Section 4

This section has 13 questions. Mark your answers in your booklet. Fill in only **one** oval for each question except where instructed otherwise.

1. Please indicate how much you **DISAGREE** or **AGREE** with the following statements about reading and writing. Fill in **one** oval on each line.

VB345622

	Strongly disagree	Disagree	Agree	Strongly agree	
a. When I read books, I learn a lot.	(A)	(B)	(C)	(D)	VB345623
b. Reading is one of my favorite activities.	(A)	(B)	(C)	(D)	VB345624
c. Reading is enjoyable.	(A)	(B)	(C)	(D)	VE633189

2. How often do you do each of the following? Fill in **one** oval on each line.

VB379288

	Never or hardly ever	Once or twice a month	Once or twice a week	Almost every day	
a. Read for fun on your own time	(A)	(B)	(C)	(D)	VB379289
b. Talk with your friends or family about something you have read	(A)	(B)	(C)	(D)	VB379290

3. For your **English** class so far this year, how many times have you done each of the following? Fill in **one** oval on each line.

VB345648

	Never	Once	2 or 3 times	4 or 5 times	6 or more times	
a. Made a presentation to the class about something that you have read	(A)	(B)	(C)	(D)	(E)	VB345650
b. Done a project about something that you have read (for example, written a play, created a website)	(A)	(B)	(C)	(D)	(E)	VB345651

4. How often do you receive help or tutoring with reading outside of your regular English/language arts class?

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

5. In your English/language arts class this year, how often does your class do each of the following? Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Every day or almost every day	
a. Read aloud	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC504014
b. Read silently	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC504015
c. Discuss new or difficult vocabulary	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC504016
d. Explain what we have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC504017
e. Work in pairs or small groups to talk about something that we have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE589600
f. Read books we have chosen ourselves	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC504019
g. Write a paragraph or more about what we have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VE589602
h. Discuss different interpretations of what we have read	Ⓐ	Ⓑ	Ⓒ	Ⓓ	VC504021



VC504022

6. In your English/language arts class this year, when reading a story, article, or other passage, how often does your teacher ask you to do the following? Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Every day or almost every day	
a. Summarize the passage	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VC504023
b. Interpret the meaning of the passage	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VC504024
c. Question the motives or feelings of the characters	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VC504025
d. Identify the main themes or main ideas of the passage	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE589611
e. Evaluate the main arguments or evidence in a persuasive passage	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE589612
f. Analyze the author's organization of information in a passage	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE589613
g. Critique the author's craft or technique	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE607938

7. In your English/language arts class this year, how often do you use a computer to do each of the following? Fill in **one** oval on each line.

	Never or hardly ever	Once or twice a month	Once or twice a week	Every day or almost every day	
a. Learn and practice vocabulary	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VC504028
b. Write fictional stories	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE589642
c. Write informational reports	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE589649
d. Produce multimedia reports/projects	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VC504031
e. Access reading-related websites (for example, websites with book reviews and lists of recommended books)	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VC504033
f. Conduct research for reading and writing projects	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VC504034
g. Read books or articles using a digital media device, such as an e-book reader or tablet computer	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	VE589651

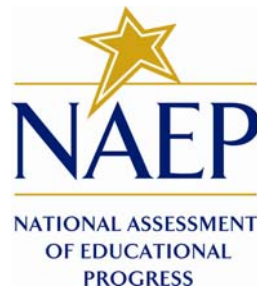
8. Are you currently enrolled in or have you taken an Advanced Placement (AP®) course in English/language arts? Fill in ovals for **all** that apply. VE626880
- Ⓐ Yes, I am enrolled in or have taken Advanced Placement (AP) English **Language** and Composition.
  - Ⓑ Yes, I am enrolled in or have taken Advanced Placement (AP) English **Literature** and Composition.
  - Ⓒ No, I have never taken an Advanced Placement (AP) English/language arts course.
9. Are you currently enrolled in or have you taken the International Baccalaureate® (IB) Language A1 course? VE589658
- Ⓐ Yes
  - Ⓑ No
10. Are you currently enrolled in or have you taken any online English/language arts courses for high school or college credit? VC293008
- Ⓐ Yes
  - Ⓑ No
11. How hard was this test compared to most other tests you have taken this year in school? VB595182
- Ⓐ Easier than other tests
  - Ⓑ About as hard as other tests
  - Ⓒ Harder than other tests
  - Ⓓ Much harder than other tests
12. 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? VC034559
- Ⓐ 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
13. How important was it to you to do well on this test? VB595184
- Ⓐ Not very important
  - Ⓑ Somewhat important
  - Ⓒ Important
  - Ⓓ Very important



# NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

## *Wave 2 Submittal for 2013* **VOLUME II** ***BACKGROUND QUESTIONS***

### **Part 3c** **Student Grade 12 Mathematics (Operational)**



*Part 3c contains:*

Student Grade 12 Mathematics Questions (Operational)

*The amount of time estimated to complete this form is 10 minutes.*

# 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

Section 4

	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.

- (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.

VE593756

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

- (A) Yes
- (B) No

VB543297

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

- (A) Yes
- (B) No

VC288225

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

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

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

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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VF094885
b. A database program	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VF094889
c. A mathematics tutorial program	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE593747
d. A graphing program	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE593748
e. A statistical program	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE593749
f. A dynamic geometry program	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE593753
g. A computer algebra system (CAS)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	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"/> A    | <input type="radio"/> B    | <input type="radio"/> C | <input type="radio"/> D         | <input type="radio"/> E             | VC299268 |
| b. Get help with mathematics from someone other than your teacher, family, classmates, or friends | <input type="radio"/> A    | <input type="radio"/> B    | <input type="radio"/> C | <input type="radio"/> D         | <input type="radio"/> E             | VC189627 |

VE593425

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

- A I did not use a calculator for this test.
- B NAEP-provided scientific calculator
- C Scientific (not graphing) calculator
- D 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?

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

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

VB595184

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

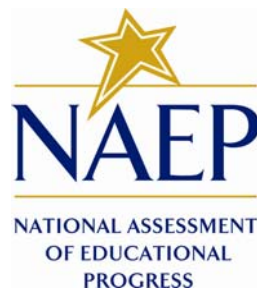
- A Not very important
- B Somewhat important
- C Important
- D Very important



# NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

## *Wave 2 Submittal for 2013* **VOLUME II** **BACKGROUND QUESTIONS**

### **Part 3d** **Student Grade 12 NAEP-PISA Linking Study**



*Part 3d contains:*

Student Grade 12 NAEP-PISA Linking Study (Mathematics) Questions

*The amount of time estimated to complete this form is 10 minutes.*

# SECTION 4

## Section 4

This section has 15 questions. Mark your answers in your booklet. Fill in only **one** oval for each question except where instructed otherwise.

VB543277

1. What math class are you taking this 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 eighth-grade math
- Ⓗ Integrated or sequential math
- Ⓘ Other math class

VB543278

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
- Ⓗ Integrated or sequential math
- Ⓘ Business or consumer math
- Ⓚ Other math class
- Ⓚ I don't know.

VC497572

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

	Never or hardly ever	Sometimes	Often	Always or almost always	
a. I have a clear understanding of what my math teacher is asking me to do.	(A)	(B)	(C)	(D)	VC497573
b. The math work is too easy.	(A)	(B)	(C)	(D)	VC497574
c. The math work is challenging.	(A)	(B)	(C)	(D)	VC497575
d. The math work is engaging and interesting.	(A)	(B)	(C)	(D)	VC497576
e. I am learning.	(A)	(B)	(C)	(D)	VC497577

VC189706

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

	Strongly disagree	Disagree	Agree	Strongly agree	
a. Because math is fun, I wouldn't want to give it up.	(A)	(B)	(C)	(D)	VC189707
b. I like math.	(A)	(B)	(C)	(D)	VC189710
c. Math is one of my favorite subjects.	(A)	(B)	(C)	(D)	VC189711

VB517159

5. How often do you use these different types of calculators in your math class?

	Never use	Sometimes, but not often	Usually use	
a. Basic four-function (addition, subtraction, multiplication, division)	(A)	(B)	(C)	VB517160
b. Scientific (not graphing)	(A)	(B)	(C)	VB517161
c. Graphing	(A)	(B)	(C)	VB517282

VB517158

6. When you take a math test or quiz, how often do you use a calculator?

- Ⓐ Never  
 Ⓑ Sometimes  
 Ⓒ Always

VB543269

7. For each of the following activities, how often do you use a **calculator**? 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. To check your work on math homework assignments	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543270
b. To calculate the answers to math homework problems	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543271
c. To work in class on math lessons led by your teacher	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VB543272

VB543267

8. What kind of **calculator** do you usually use when you are **not in math class**?

- Ⓐ None  
 Ⓑ Basic four-function (addition, subtraction, multiplication, division)  
 Ⓒ Scientific (not graphing)  
 Ⓓ Graphing

VB525162

9. How often do you use a computer for math at school?

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

10. When you are doing math for school or homework, how often do you use these **different types of computer programs**? 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<br>or almost<br>every day |          |
|---|----------------------------|----------------------------|-------------------------|---------------------------------|-------------------------------------|----------|
| a. A spreadsheet program for math class assignments   | Ⓐ                          | Ⓑ                          | Ⓒ                       | Ⓓ                               | Ⓔ                                   | VB543157 |
| b. A program to practice or drill on math facts (addition, subtraction, multiplication, division) | Ⓐ                          | Ⓑ                          | Ⓒ                       | Ⓓ                               | Ⓔ                                   | VB543158 |
| c. A program that presents new math lessons with problems to solve                                | Ⓐ                          | Ⓑ                          | Ⓒ                       | Ⓓ                               | Ⓔ                                   | VB543160 |
| d. The Internet to learn things for math class  | Ⓐ                          | Ⓑ                          | Ⓒ                       | Ⓓ                               | Ⓔ                                   | VB543159 |
| e. A calculator program on the computer to solve or check problems for math class                 | Ⓐ                          | Ⓑ                          | Ⓒ                       | Ⓓ                               | Ⓔ                                   | VB543161 |
| f. A graphing program on the computer to make charts or graphs for math class                     | Ⓐ                          | Ⓑ                          | Ⓒ                       | Ⓓ                               | Ⓔ                                   | VB543262 |
| g. A statistical program to calculate patterns such as correlations or cross tabulations          | Ⓐ                          | Ⓑ                          | Ⓒ                       | Ⓓ                               | Ⓔ                                   | VB517157 |
| h. A word processing program to write papers for math class                                       | Ⓐ                          | Ⓑ                          | Ⓒ                       | Ⓓ                               | Ⓔ                                   | VB543156 |
| i. A program to work with geometric shapes for math class   | Ⓐ                          | Ⓑ                          | Ⓒ                       | Ⓓ                               | Ⓔ                                   | VC466133 |



VC189613

11. 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 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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC299268
b. Get help with math from someone other than your teacher, family, classmates, or friends	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VC189627

VC290281

12. Do you study or do work for math at an after-school or tutoring program?

- Ⓐ Yes  
Ⓑ No

VB595182

13. 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

14. 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

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

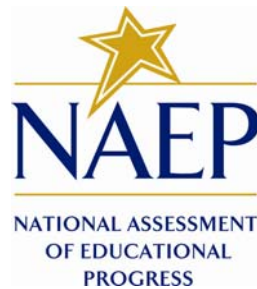
- Ⓐ Not very important  
Ⓑ Somewhat important  
Ⓒ Important  
Ⓓ Very important



# NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

## *Wave 2 Submittal for 2013* **VOLUME II** **BACKGROUND QUESTIONS**

### **Part 3e** **Student Grade 12 NAEP-High School Longitudinal Study**



*Part 3e contains:*

Student Grade 12 NAEP-HSLS Study (Mathematics) Questions

*The amount of time estimated to complete this form is 10 minutes.*

# 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	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VC298769
b. <b>Tech-prep</b> mathematics, <b>business</b> mathematics, <b>consumer</b> mathematics, or other <b>applied mathematics</b> 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	VC298847
c. <b>Introduction to algebra</b> or <b>pre-algebra</b> 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	VC299007
d. <b>Algebra I</b> 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	VC299008
e. <b>Geometry</b> 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	VC299009
f. <b>Algebra II</b> course, <b>with or without trigonometry</b>	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D	<input type="radio"/> E	<input type="radio"/> F	VC299010
g. <b>Trigonometry</b> (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	VC299012
h. <b>Pre-calculus</b> 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	VE593389
i. <b>Integrated</b> 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	VF269035
j. <b>Integrated</b> 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	VF269036

Section 4

	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.

- (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.

VE593756

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

- (A) Yes
- (B) No

VB543297

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

- (A) Yes
- (B) No

VC288225

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

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

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

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	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VF094885
b. A database program	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VF094889
c. A mathematics tutorial program	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE593747
d. A graphing program	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE593748
e. A statistical program	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE593749
f. A dynamic geometry program	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	VE593753
g. A computer algebra system (CAS)	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	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"/> A    | <input type="radio"/> B    | <input type="radio"/> C | <input type="radio"/> D         | <input type="radio"/> E             | VC299268 |
| b. Get help with mathematics from someone other than your teacher, family, classmates, or friends | <input type="radio"/> A    | <input type="radio"/> B    | <input type="radio"/> C | <input type="radio"/> D         | <input type="radio"/> E             | VC189627 |

VE593425

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

- A I did not use a calculator for this test.
- B NAEP-provided scientific calculator
- C Scientific (not graphing) calculator
- D 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?

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

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

VB595184

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

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

