

Name: _____



New York State Testing Program

Mathematics Test Session 1

Grade **7**

Spring 2026

RELEASED QUESTIONS

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Session 1

Session 1



TIPS FOR TAKING THE TEST

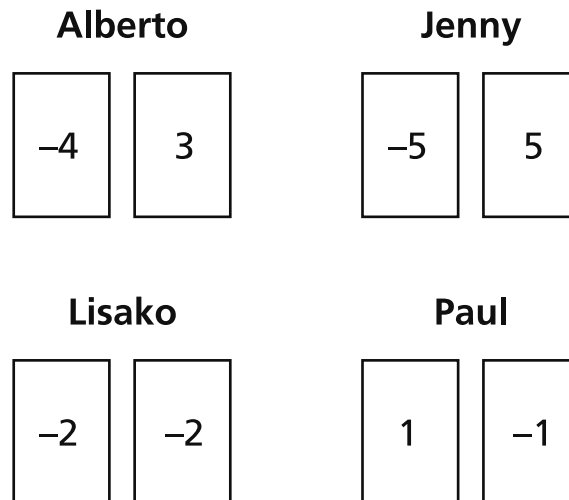
Here are some ideas to help you do your best:

- Read each question carefully. Take your time.
- You have a ruler, a protractor, a reference sheet, and a calculator that you can use on the test if they help you answer the question.

1 Mr. Joseph paid a total of \$540.00 for a new gaming system and games. He paid \$300.00 for the gaming system and \$60.00 for each game. How many games did Mr. Joseph buy?

- A 3
- B 4
- C 5
- D 9

2 A group of four students is playing a game using a deck of cards. The cards in the deck are labeled with an integer from -10 to 10 . Each student draws two cards from the deck and finds the sum of their two cards to determine their score. The two cards drawn by each student are shown below.



Which students have a score of 0 ?

- A Alberto and Jenny
- B Jenny and Lisako
- C Alberto and Paul
- D Jenny and Paul

GO ON

3

A farm sells blueberries by the pound to customers. The table below shows the relationship between the price, p , in dollars, and the number of pounds of blueberries, b , sold.

BLUEBERRY PRICES

Pounds of Blueberries, b	Price (dollars), p
2	\$11.98
4	\$23.96
6	\$35.94

Which statement describes a constant of proportionality for the relationship between the price, p , in dollars, and the number of pounds of blueberries, b , sold?

- A The price per pound is \$0.17.
- B The price per pound is \$5.99.
- C The price per pound is \$9.98.
- D The price per pound is \$11.98.

4

What is the value of the expression $\left(-\frac{5}{6}\right) \div \left(-\frac{1}{3}\right)$?

- A $-2\frac{1}{2}$
- B $-\frac{5}{18}$
- C $\frac{5}{18}$
- D $2\frac{1}{2}$

5 A water hose is being used to fill a 3,000 gallon swimming pool. Water flows at a constant rate through the hose. If the pool is completely filled in $2\frac{1}{2}$ hours, how many gallons of water were added to the pool per hour?

- A 300
- B 600
- C 1,200
- D 7,500

6 Shameka is saving for a new scooter that costs \$248.00. She has already saved \$100.00. She wants to buy the scooter in 8 weeks by saving the same amount of money each week. What is the least amount of money, in dollars, Shameka can save each week to achieve her goal?

- A \$16.45
- B \$18.50
- C \$31.00
- D \$43.50

GO ON

7

The table below shows a proportional relationship between y and x .

x	y
2	0.6
3	0.9
4	1.2
5	1.5

Which equation represents the proportional relationship?

- A $y = x + 0.3$
- B $y = x + 3.\bar{3}$
- C $y = 3.\bar{3}x$
- D $y = 0.3x$

8

A student can choose one food item and one type of juice for breakfast. The food items and types of juice available are listed below.

- food item: egg, toast, pancakes, sausage
- type of juice: apple, grape, orange

How many different breakfast combinations of one food item and one type of juice are available for the student to choose from?

- A 3
- B 4
- C 7
- D 12

10 Ms. Morgan earns \$15.50 per hour working in an office. On Tuesday she spends $1\frac{1}{3}$ hours filling out paperwork, 1 hour and 25 minutes sending emails, and $3\frac{1}{4}$ hours making appointments. How much money does Ms. Morgan earn on Tuesday?

- A \$77.50
- B \$89.90
- C \$93.00
- D \$108.50

GO ON

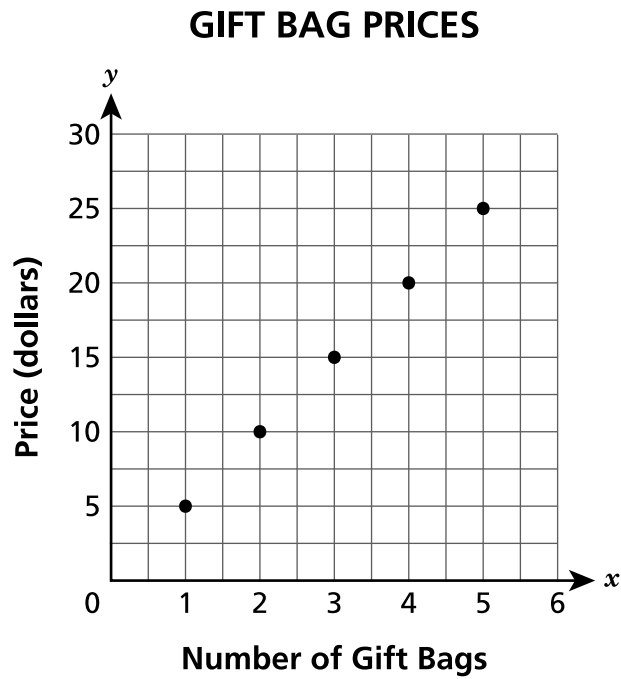
11 Which expression is equivalent to $3(5x + 2) - 2(6x - 7)$?

- A $23x$
- B $-11x$
- C $3x - 5$
- D $3x + 20$

12 Jessica opened a savings account with a \$1,200.00 deposit. She did not make any additional deposits or withdrawals for 4 years and earned \$144.00 in simple interest. What was the annual interest rate that the bank used to calculate the simple interest?

- A 0.3%
- B 2.7%
- C 3.0%
- D 4.8%

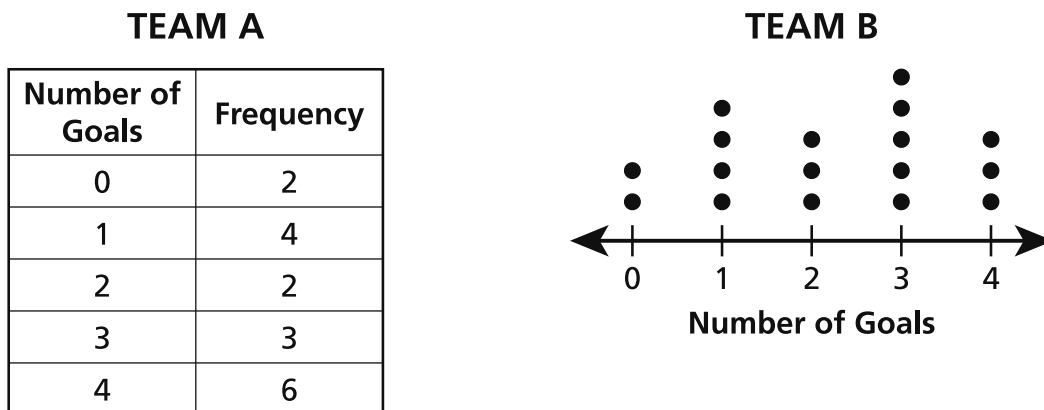
The graph below shows the prices of gift bags at a store.



Based on the graph, which statement is true?

- A The unit rate is \$0.20 per gift bag.
- B The unit rate is \$1.00 per gift bag.
- C The unit rate is \$2.00 per gift bag.
- D The unit rate is \$5.00 per gift bag.

- 14 The number of goals scored by two soccer teams in each of 17 games during a tournament is shown in the table and dot plot below.



Which team had a higher median number of goals scored in a game and what is that team's median number of goals scored?

- A Team A with a median of 3 goals scored in a game.
- B Team A with a median of 4 goals scored in a game.
- C Team B with a median of 2 goals scored in a game.
- D Team B with a median of 3 goals scored in a game.
- 15 What is the product of $-\frac{1}{5}$ and $\frac{3}{8}$?

- A $-\frac{8}{15}$
- B $-\frac{3}{40}$
- C $\frac{3}{40}$
- D $\frac{8}{15}$

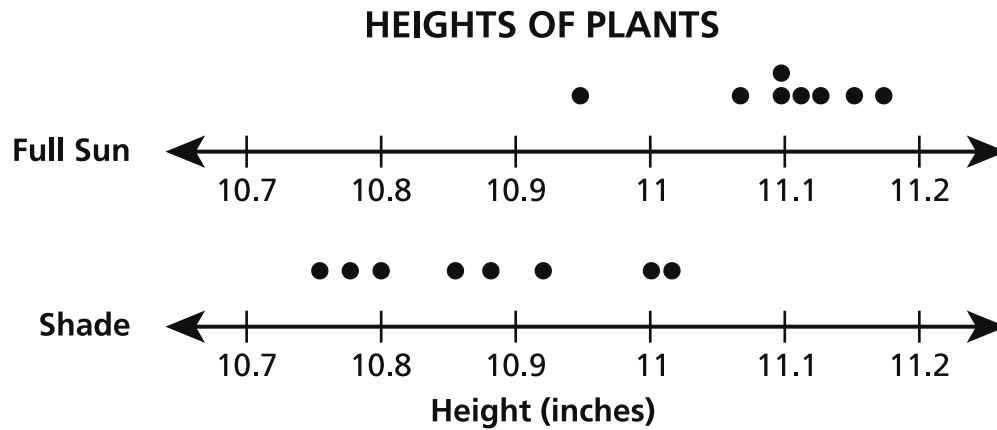
17

Joyce is buying a laptop. The original price of the laptop is \$279.00. She uses a coupon for a 10% discount off the original price. A sales tax of 8.875% is applied to the discounted price. How much does Joyce pay, in total, for the laptop, rounded to the nearest cent?

- A \$228.81
- B \$260.13
- C \$273.39
- D \$334.14

GO ON

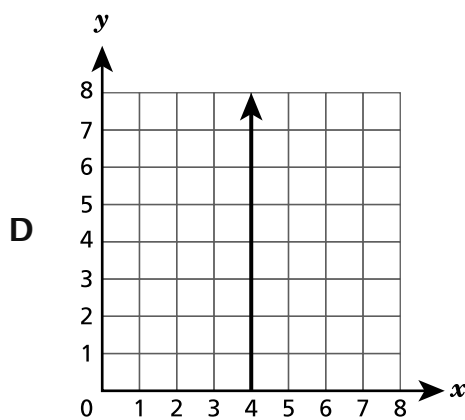
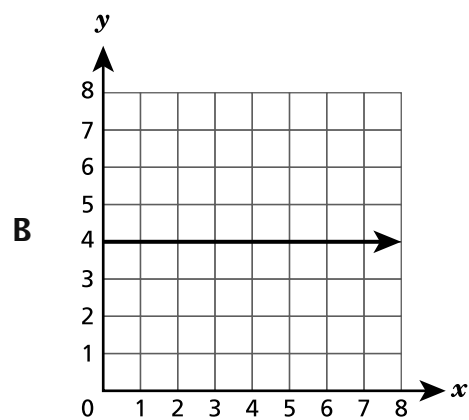
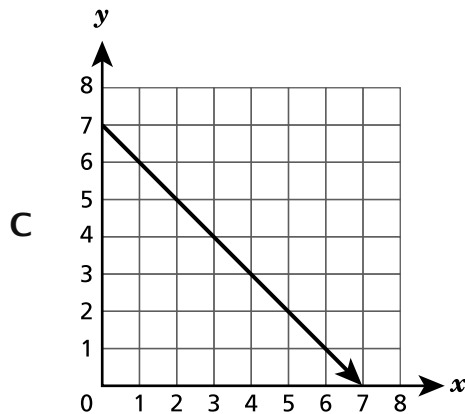
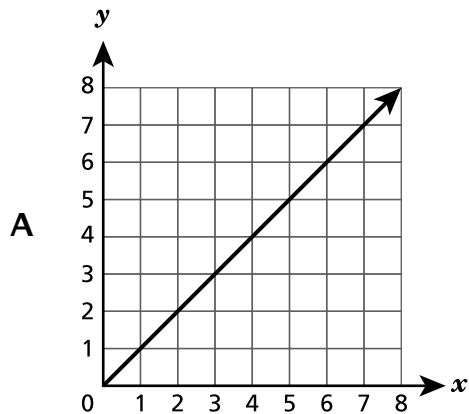
In a science class, students placed 8 tomato plants in full sun and 8 tomato plants in the shade. The heights of the plants were measured and recorded after several weeks. The results are shown in the dot plots below.



Which statement **best** describes the data?

- A The heights of the plants in full sun varied more than the heights of the plants in the shade.
- B The heights of the plants in the shade were all greater than the heights of the plants in full sun.
- C The average height of the plants in full sun was greater than the average height of the plants in the shade.
- D The average height of the plants in the shade was greater than the average height of the plants in full sun.

19 Which graph represents a proportional relationship?



20 An equation is shown below.

$$4(x + 2) = \frac{12}{-0.25}$$

What value of x makes the equation true?

- A -12.5
- B -14
- C -50
- D -56

GO ON

21 An artist is paid \$20.00 to work at a birthday party, plus \$5.00 for each portrait painted during the party. The artist would like to earn at least \$200.00 at the party. Which inequality represents the number of portraits, x , the artist should paint to earn at least \$200.00 ?

A $20x + 5 \leq 200$

B $20x + 5 < 200$

C $5x + 20 \geq 200$

D $5x + 20 > 200$

22 Bianca created a scale drawing of her bedroom for a class project using a scale of 1 ft to 1.5 cm. On the drawing, Bianca's rectangular bed is 10.5 cm long and 5.25 cm wide. What is the actual area, in square feet, of Bianca's bed?

A 24.5

B 36.75

C 55.125

D 124.03

23 Which expression is equivalent to $7 - 2(3x + 6) - 4x$?

A $11x + 6$

B $11x + 30$

C $-10x - 5$

D $-10x + 13$

25 Mateo has \$20.00 to spend at a store. He spends $\frac{2}{5}$ of his money on a shirt. Then he buys a pack of gum with 10% of his remaining money. What is the total amount of money that Mateo spends at the store?

- A** \$8.80
- B** \$9.20
- C** \$10.80
- D** \$13.20

GO ON

26 What is the value of $\left(\frac{4}{5}\right)(0.2)\left(-\frac{5}{8}\right)$?

A $-\frac{1}{10}$

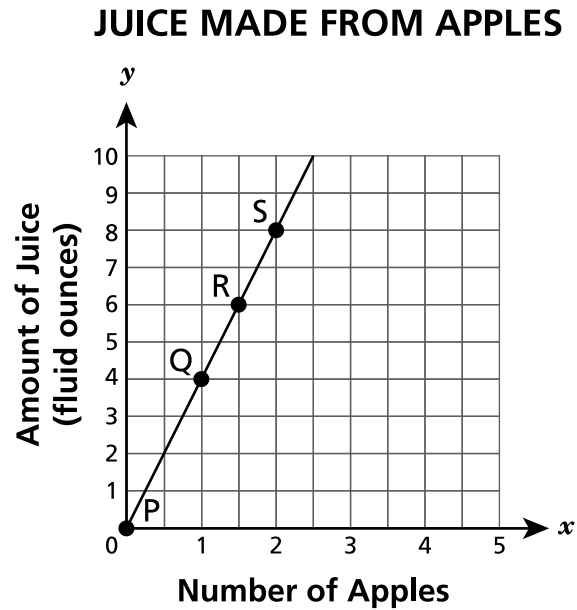
B $-\frac{3}{8}$

C $\frac{1}{10}$

D $\frac{3}{8}$

27

The graph below shows the relationship between the amount of juice, y , that can be made from x apples.



Which point on the graph has a y coordinate that represents the number of fluid ounces of juice made from 1 apple?

- A point P
- B point Q
- C point R
- D point S

GO ON

29

Students in four middle school classes raised money for a field trip. The amount of money each class raised is described below.

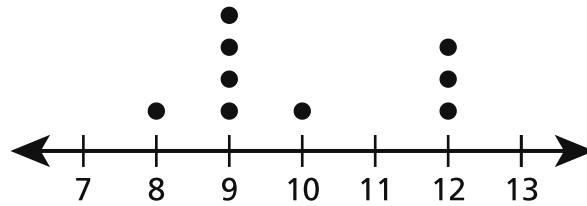
- Ms. Strazullo's class raised \$153.45.
- Mr. Fiorentino's class raised \$123.23 more than Ms. Strazullo's class.
- Ms. Rubas' class raised \$176.32 less than Mr. Fiorentino's class.
- Mr. Smith's class raised \$234.89 more than Ms. Rubas' class.

If the total price of the field trip is \$800.00, how much extra money did they raise?

- A \$65.74
- B \$112.11
- C \$687.89
- D \$865.74

30

The weights of 9 adult cats are recorded on the dot plot shown below.



Which label for the number line could be used to correctly identify the unit of measurement for the data in the dot plot?

- A number of cats
- B number of years
- C number of inches
- D number of pounds

31

An incomplete equation is shown below.

$$(5.2 - 1.6) + (\underline{\quad? \quad}) = 0$$

Which expression completes the equation to make it true?

- A $5.2 + 1.6$
- B $5.2 - 1.6$
- C $-5.2 - 1.6$
- D $-5.2 + 1.6$

GO ON

32 Which expression is equivalent to $-\frac{1}{4}(12x - 6)$?

A $3x + 6$

B $3x - 6$

C $-3x + 1\frac{1}{2}$

D $-3x - 1\frac{1}{2}$

STOP

**Grade 7
Mathematics Test
Session 1
Spring 2026**

Name: _____



New York State Testing Program

Mathematics Test Session 2

Grade **7**

Spring 2026



RELEASED QUESTIONS

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Session 2

Session 2



TIPS FOR TAKING THE TEST

Here are some ideas to help you do your best:

- Read each question carefully. Take your time.
- You have a ruler, a protractor, a reference sheet, and a calculator that you can use on the test if they help you answer the question.
- Be sure to show your work when asked.
- Be sure to explain your answer when asked.

- 33** The table below shows the number of gallons of gasoline customers put in their cars and the total price they paid.

GASOLINE PRICES

Gallons, g	Total Price, p
3	\$9.63
5	\$16.05
9	\$28.89

Which equation represents the relationship between the total price, p , and gallons of gasoline purchased, g ?

- A** $p = 0.31g$
- B** $p = 3.21g$
- C** $p = 6.42g$
- D** $p = 9.63g$
- 34** Which expression is equivalent to $\left(\frac{-45}{-9}\right)$?

- A** $-\left(\frac{45}{9}\right)$
- B** $\frac{-45}{9}$
- C** $\frac{45}{-9}$
- D** $\frac{45}{9}$

GO ON

35 Ms. Suarez buys 4 packages of pencils for \$4.48. Each package of pencils is the same price. What is the unit price, in dollars per package, of the pencils?

- A \$0.48
- B \$0.89
- C \$1.12
- D \$4.00

36 Ashley buys a book that is on sale for 25% off the original price, x . The expression $x - 0.25x$ can be used to determine the final price of the book. Which expression can also be used to determine the final price of the book?

- A $0.25x$
- B $0.75x$
- C $0.25x - x$
- D $0.75x + x$

37

Jayden made a scale drawing of the rectangular basketball court at his middle school.

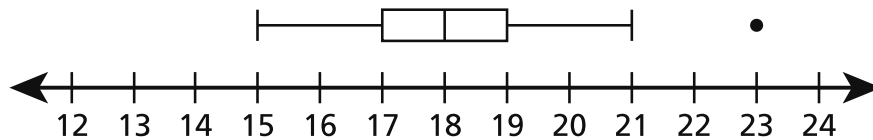
- The drawing has a scale of 1 inch to 24 feet.
- The actual length of the basketball court is $76\frac{4}{5}$ feet.

What is the length, in inches, of the rectangular basketball court in Jayden’s drawing?

- A $\frac{5}{16}$
- B $3\frac{1}{5}$
- C 24
- D $52\frac{1}{5}$

38

A box plot is shown below.



Based on the box plot, what is true about the data value 23?

- A It represents a data point that lies an unusual distance from other points in the data.
- B It represents the data point that occurred the most number of times in the data.
- C It represents the interquartile range of the data.
- D It represents the median of the data.

GO ON

40**This question is worth 1 credit.**

Mr. Morgano goes to the grocery store. The prices of different items are shown in the table below.

GROCERY ITEM PRICES

Item	Price
One pound of grapes	\$1.59
One pound of turkey	\$8.24
One loaf of bread	\$1.33
One gallon of chocolate milk	\$2.78

Mr. Morgano buys 3 pounds of grapes, $\frac{1}{2}$ pound of turkey, 2 loaves of bread, and 1 gallon of chocolate milk. He pays with a \$20.00 bill. How much change, in dollars, should Mr. Morgano receive?

Answer \$ _____

GO ON

41

This question is worth 1 credit.

Simplify the expression shown below completely.

$$-\frac{3}{4}(4x - 8) + (x - 2)$$

Answer _____

GO ON

43**This question is worth 2 credits.**

A customer orders a large pizza with 2 toppings and a medium pizza with 2 toppings at a restaurant. The prices for the pizzas and toppings are listed below.

- Large pizza without toppings: \$12.50
- Medium pizza without toppings: \$10.25
- Toppings: \$1.25 each

A 20% discount is applied to the customer's order. What is the total price of the order, excluding tax, after the discount?

Show your work.

Answer \$ _____

GO ON

44

This question is worth 2 credits.

Jim and Devin ride their bicycles to meet at a friend's house.

- Jim rides $3\frac{1}{3}$ miles in $\frac{1}{2}$ hour.
- Devin rides $1\frac{7}{8}$ miles in $\frac{1}{4}$ hour.

What is the difference, in miles per hour, between the average speeds of Jim and Devin?

Explain how you determined your answer.

GO ON

45

This question is worth 2 credits.

A group of sixth grade students recorded their favorite flavors of ice cream. The results are shown in the table below.

FAVORITE FLAVORS OF ICE CREAM

Flavor of Ice Cream	Number of Students
Vanilla	12
Chocolate	8
Strawberry	5
Pistachio	3
Other	4

Based on the results, what would be the predicted number of students in the entire sixth grade whose favorite ice cream flavor is chocolate, if there are a total of 120 students in the sixth grade?

Show your work.

Answer _____ students

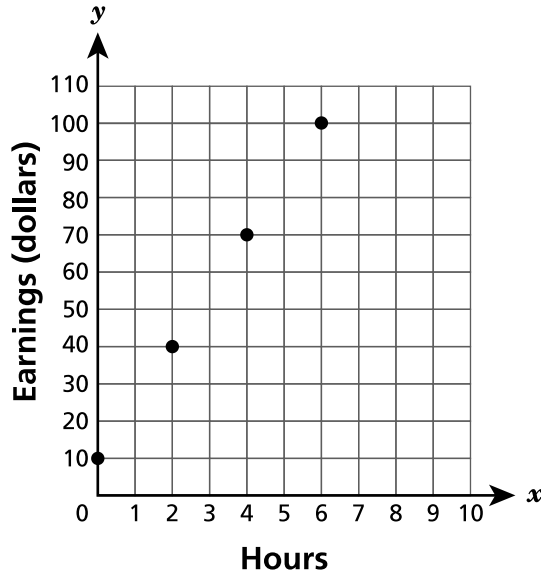
GO ON

46

This question is worth 2 credits.

Eric's and Jenna's earnings at their jobs are shown in the graph and the table below.

ERIC'S EARNINGS



JENNA'S EARNINGS

Hours, x	Earnings (dollars), y
3	54
6	108
9	162
12	216

For which person is the amount of earnings proportional to the number of hours worked?

Explain your answer.

GO ON

47

This question is worth 2 credits.

An expression is shown below.

$$\left(\frac{1}{2}\right)(-0.4) \div \left(\frac{1}{3}\right)$$

Evaluate the expression.

Show your work.

Answer _____

GO ON

48

This question is worth 3 credits.

Nicholas went to a bowling alley. The bowling alley charged Nicholas a one time fee of \$3.75 to rent shoes and \$5.25 for each game he played. Write and solve an equation to determine the number of games, x , that Nicholas played if he spent a total of \$30.00 on shoes and games.

Show your work.

Answer _____ games

STOP

**Grade 7
Mathematics Test
Session 2
Spring 2026**

THE STATE EDUCATION DEPARTMENT
THE UNIVERSITY OF THE STATE OF NEW YORK / ALBANY, NY 12234
2026 Mathematics Tests Map to the Standards
Grade 7

Question	Type	Key	Points	Standard	Cluster	Subscore	Secondary Standard(s)
Session 1							
1	Multiple Choice	B	1	NGLS.Math.Content.NY-7.EE.4a	Expressions and Equations	Expressions and Equations	
2	Multiple Choice	D	1	NGLS.Math.Content.NY-7.NS.1b	The Number System	The Number System	
3	Multiple Choice	B	1	NGLS.Math.Content.NY-7.RP.2b	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
4	Multiple Choice	D	1	NGLS.Math.Content.NY-7.NS.2c	The Number System	The Number System	
5	Multiple Choice	C	1	NGLS.Math.Content.NY-7.RP.1	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
6	Multiple Choice	B	1	NGLS.Math.Content.NY-7.EE.4b	Expressions and Equations	Expressions and Equations	
7	Multiple Choice	D	1	NGLS.Math.Content.NY-7.RP.2c	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
8	Multiple Choice	D	1	NGLS.Math.Content.NY-7.SP.8b	Statistics and Probability		
10	Multiple Choice	C	1	NGLS.Math.Content.NY-7.EE.3	Expressions and Equations	Expressions and Equations	
11	Multiple Choice	D	1	NGLS.Math.Content.NY-7.EE.1	Expressions and Equations	Expressions and Equations	
12	Multiple Choice	C	1	NGLS.Math.Content.NY-7.RP.3	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
13	Multiple Choice	D	1	NGLS.Math.Content.NY-7.RP.2d	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
14	Multiple Choice	A	1	NGLS.Math.Content.NY-7.SP.4	Statistics and Probability		
15	Multiple Choice	B	1	NGLS.Math.Content.NY-7.NS.2c	The Number System	The Number System	
17	Multiple Choice	C	1	NGLS.Math.Content.NY-7.RP.3	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
18	Multiple Choice	C	1	NGLS.Math.Content.NY-7.SP.3	Statistics and Probability		
19	Multiple Choice	A	1	NGLS.Math.Content.NY-7.RP.2a	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
20	Multiple Choice	B	1	NGLS.Math.Content.NY-7.EE.4a	Expressions and Equations	Expressions and Equations	
21	Multiple Choice	C	1	NGLS.Math.Content.NY-7.EE.4b	Expressions and Equations	Expressions and Equations	
22	Multiple Choice	A	1	NGLS.Math.Content.NY-7.G.1	Geometry		
23	Multiple Choice	C	1	NGLS.Math.Content.NY-7.EE.1	Expressions and Equations	Expressions and Equations	
25	Multiple Choice	B	1	NGLS.Math.Content.NY-7.EE.3	Expressions and Equations	Expressions and Equations	
26	Multiple Choice	A	1	NGLS.Math.Content.NY-7.NS.3	The Number System	The Number System	
27	Multiple Choice	B	1	NGLS.Math.Content.NY-7.RP.2d	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
29	Multiple Choice	A	1	NGLS.Math.Content.NY-7.NS.3	The Number System	The Number System	
30	Multiple Choice	D	1	NGLS.Math.Content.NY-6.SP.5b	Statistics and Probability		
31	Multiple Choice	D	1	NGLS.Math.Content.NY-7.NS.1a	The Number System	The Number System	
32	Multiple Choice	C	1	NGLS.Math.Content.NY-7.EE.1	Expressions and Equations	Expressions and Equations	
Session 2							
33	Multiple Choice	B	1	NGLS.Math.Content.NY-7.RP.2c	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
34	Multiple Choice	D	1	NGLS.Math.Content.NY-7.NS.2b	The Number System	The Number System	
35	Multiple Choice	C	1	NGLS.Math.Content.NY-7.RP.2b	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
36	Multiple Choice	B	1	NGLS.Math.Content.NY-7.EE.2	Expressions and Equations	Expressions and Equations	
37	Multiple Choice	B	1	NGLS.Math.Content.NY-7.G.1	Geometry		
38	Multiple Choice	A	1	NGLS.Math.Content.NY-7.SP.1	Statistics and Probability		
40	Constructed Response		1	NGLS.Math.Content.NY-7.NS.3	The Number System	The Number System	
41	Constructed Response		1	NGLS.Math.Content.NY-7.EE.1	Expressions and Equations	Expressions and Equations	
43	Constructed Response		2	NGLS.Math.Content.NY-7.EE.3	Expressions and Equations	Expressions and Equations	NGLS.Math.Content.NY-7.RP.3
44	Constructed Response		2	NGLS.Math.Content.NY-7.RP.1	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
45	Constructed Response		2	NGLS.Math.Content.NY-6.SP.7	Statistics and Probability		
46	Constructed Response		2	NGLS.Math.Content.NY-7.RP.2a	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
47	Constructed Response		2	NGLS.Math.Content.NY-7.NS.2c	The Number System	The Number System	
48	Constructed Response		3	NGLS.Math.Content.NY-7.EE.4a	Expressions and Equations	Expressions and Equations	

*This item map is intended to identify the primary analytic skills necessary to successfully answer each question. However, some questions measure proficiencies described in multiple standards, including a balanced combination of procedural and conceptual understanding.