Name: _____

New York State Testing Program

Mathematics Test
Session 1

Grade 6

Spring 2026

RELEASED QUESTIONS

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, and a reference sheet that you can use on the test if they help you answer the question.

1 It takes approximately 2 seconds for sound to travel 686 meters through air. Based on this rate, what is the speed of sound in meters per second?

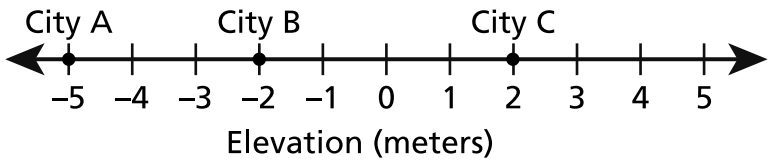
A 343

B 684

C 688

D 1,372

2 The elevations, in meters, of three cities as measured from sea level are marked on the number line shown below.



Based on the number line, which statement is true?

A City A and City B are both above sea level.

B City B is at sea level and City C is above sea level.

C City A is above sea level and City C is below sea level.

D City B is below sea level and City C is above sea level.

GO ON

3 Lacy needs to buy 72 ounces of beef for a recipe. Which expression can be used to determine how many pounds of beef Lacy needs for the recipe?

A $72 \div 16$

B 72×16

C $72 - 16$

D $72 + 16$

4 An expression is shown below.

$$2(12 - x) + y^2$$

What is the value of the expression when $x = 7$ and $y = 3$?

A 16

B 19

C 23

D 26

5 A rectangle is drawn on a coordinate plane with vertices located at $\mathrm{A}(-2, 3)$, $\mathrm{B}(4, 3)$, $\mathrm{C}(4, -7)$, and $\mathrm{D}(-2, -7)$. What is the length, in units, of side BC ?

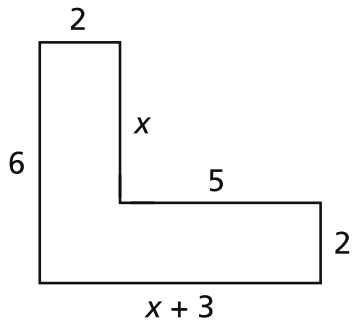
A 6

B 8

C 10

D 14

6 Which expression represents the perimeter, in units, of the figure shown below?



A $x + 15$

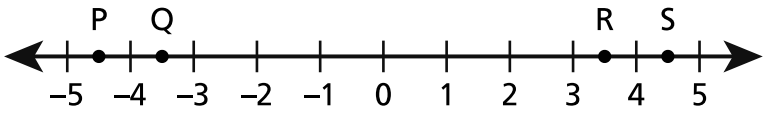
B $x + 18$

C $2x + 15$

D $2x + 18$

GO ON

8 Four points are plotted on the number line shown below.



Which point represents the opposite of $4\frac{1}{2}$?

A P

B Q

C R

D S

9 A teacher has $2\frac{1}{2}$ vanilla cakes. A serving size is $\frac{1}{12}$ of a cake. How many total servings of vanilla cake does the teacher have?

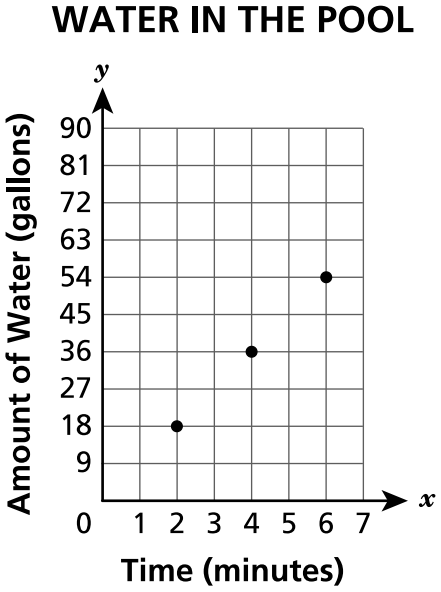
A 12

B 24

C 30

D 60

10 A gardener is filling a pool with water from a garden hose at a constant rate. He plots points showing the number of gallons of water in the pool at different times on the coordinate plane shown below.



Based on the graph, what is the total amount of water, in gallons, in the pool at 3 minutes?

A 6

B 9

C 18

D 27

GO ON

11 An art teacher orders boxes to organize her supplies. Each box is a right rectangular prism with a length of $3\frac{2}{3}$ inches, a width of $3\frac{1}{2}$ inches, and a height of 6 inches. What is the volume, in cubic inches, of each box?

A $54\frac{1}{3}$

B $54\frac{3}{5}$

C 77

D 96

12 A flower garden has three different types of flowers. There are 12 daisies, 20 roses, and 13 tulips. What is the ratio of the number of roses to the total number of flowers?

A 20 : 25

B 20 : 45

C 25 : 20

D 45 : 20

14 A pizza shop charges $\$15.00$ for each large pizza. There is a one time charge of $\$5.00$ to deliver any number of pizzas. Which equation could be used to determine the total charge, c, in dollars, of a delivery order of p large pizzas?

A $c = 15 + 5p$

B $c = 15p + 5$

C $c = 15 + 5 + p$

D $c = 15 \times 5 + p$

15 Marty needs to measure $\frac{3}{4}$ cup of cooking oil, but he can only find a tablespoon. He knows that 1 cup is the same as 16 tablespoons. How many tablespoons of oil will Marty need to measure $\frac{3}{4}$ cup of oil?

A 4

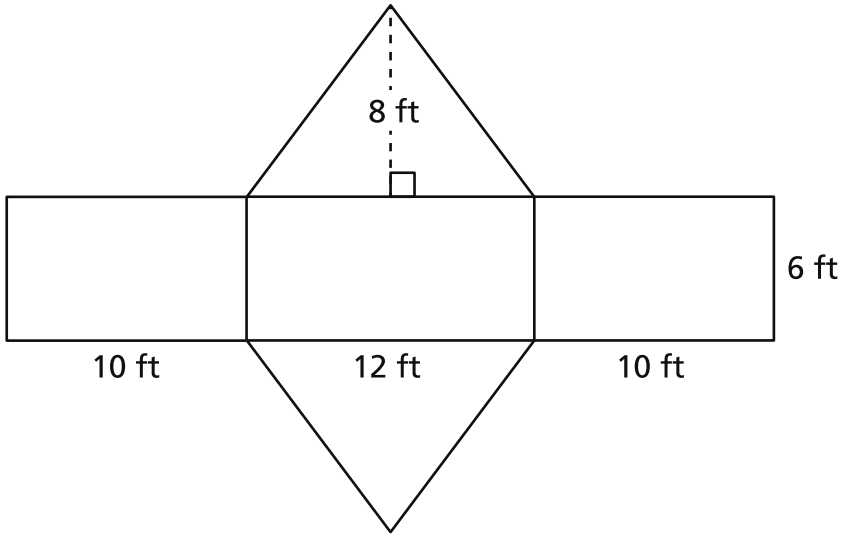
B 8

C 12

D 20

GO ON

16 A net of a right triangular prism is shown below.



What is the surface area, in square feet, of the triangular prism?

A 240

B 288

C 336

D 384

17 A student has both basketball practice and choir practice today. Practices can occur any day of the week and follow the schedules shown below.

- basketball practice: every 6 days
- choir practice: every 8 days

What is the **fewest** number of days until the student has both basketball and choir practice on the same day again?

A 14

B 24

C 36

D 48

19 Which expression is equivalent to $5(6m + 3) + 4m$?

A $37m$

B $49m$

C $34m + 3$

D $34m + 15$

GO ON

20 Which statement is true for the values of -15 and -5 ?

A $-5 < -15$ and $|-5| < |-15|$

B $-5 > -15$ and $|-5| > |-15|$

C $-15 < -5$ and $|-15| > |-5|$

D $-15 > -5$ and $|-15| < |-5|$

21 Tina makes 6 paper decorations in 39 minutes. At this rate, how many minutes will it take Tina to make 14 paper decorations?

A 47

B 59

C 84

D 91

22 A model is built to represent a perfect cube using unit cubes. The model has 5 layers. Each layer consists of 5 rows of 5 unit cubes. What perfect cube is represented by the model?

A 125

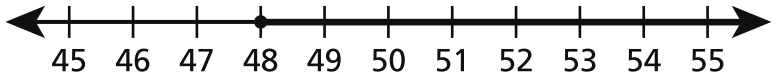
B 25

C 15

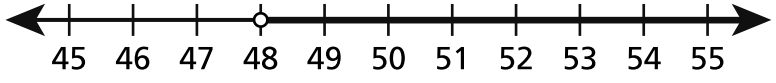
D 10

23 At an amusement park, a rider must be at least 48 inches tall to ride a roller coaster. Which number line represents how tall, in inches, a rider must be to ride the roller coaster?

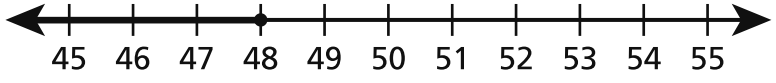
A



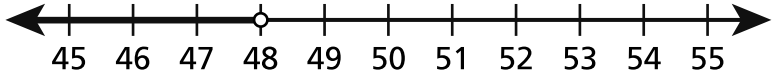
B



C



D



24 A soccer player scored 30% of the total goals scored by a team in a tournament. If the player scored 6 goals, how many total goals did the team score in the tournament?

A 14

B 18

C 20

D 24

GO ON

26 An inequality is shown below.

$$k - 16 > 29$$

Which value of k makes the inequality true?

A 30

B 35

C 45

D 58

27 A bakery sells boxes of cookies. The list below shows information for one month of sales.

- The bakery sold a total of 324 boxes of cookies.
- Of the boxes sold, 250 of the boxes contained just chocolate chip cookies.
- The rest of the boxes sold contained just sugar cookies.

Which equation can be used to determine the total number of boxes, x, of sugar cookies sold by the bakery that month?

A $\frac{324}{x} = 250$

B $324x = 250$

C $x - 250 = 324$

D $x + 250 = 324$

28 A cake recipe requires 6 eggs for every 4 cups of flour. Which statement is true about the relationship between flour and eggs for the recipe?

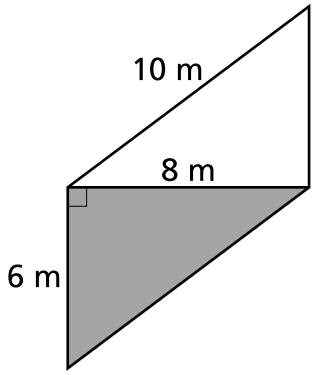
A For every 2 cups of flour, 3 eggs are used.

B For every 2 cups of flour, 5 eggs are used.

C For every 3 cups of flour, 2 eggs are used.

D For every 3 cups of flour, 5 eggs are used.

29 A piece of fabric in the shape of a parallelogram is used to create two sails for a sailboat. A diagram of the fabric is shown below.



What is the area, in square meters, of the shaded region?

A 24

B 30

C 48

D 60

GO ON

30 Which expression is equivalent to 55 less than the sum of 4 and twice a number, c?

A $55 - 2(4 + c)$

B $55 - (4 + 2c)$

C $(4 + 2c) - 55$

D $2(4 + c) - 55$

STOP

Grade 6
Mathematics Test
Session 1
Spring 2026

Name: _____

New York State Testing Program

Mathematics Test
Session 2

Grade 6

Spring 2026

RELEASED QUESTIONS

Developed and published under contract with the New York State Education Department by NWEA, a division of HMH, 125 High St., Boston, MA 02110.

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.

31 A teacher surveyed all of the students in the art club to determine their favorite ice cream flavor. Each student chose one flavor. The results of the survey are shown in the table below.

SURVEY RESULTS

Favorite Ice Cream Flavor	Number of Students
Chocolate	18
Vanilla	21
Strawberry	11

What percent of the students in the art club chose vanilla ice cream as their favorite flavor?

A 21%

B 42%

C 58%

D 72%

32 An expression is shown below.

$$24x + 18y$$

Which expression is equivalent to the expression shown?

A $42xy$

B $4x + 3y$

C $6(4x + 3y)$

D $6(4x + 18y)$

GO ON

33 Points A and B are located 5 units away from each other on a coordinate plane. Which two ordered pairs could be the coordinates of points A and B ?

A $(-4, 1)$ and $(-4, -6)$

B $(1, -2)$ and $(1, 3)$

C $(-1, 2)$ and $(-4, 2)$

D $(3, -1)$ and $(2, -1)$

34 A store has a sale on one type of notebook. The price of 3 of these notebooks is $6. Which table shows the same relationship for each given number of notebooks of this type and the total price for those notebooks?

A

NOTEBOOK PRICES

Number of Notebooks	6	12	18	24	30
Price (dollars)	3	6	9	12	15

B

NOTEBOOK PRICES

Number of Notebooks	3	6	9	12	15
Price (dollars)	6	12	18	24	30

C

NOTEBOOK PRICES

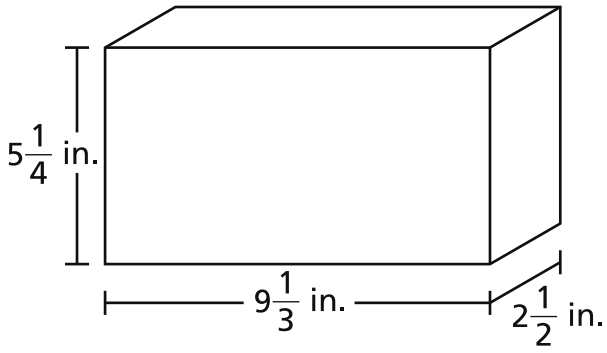
Number of Notebooks	6	9	12	15	18
Price (dollars)	3	6	9	12	15

D

NOTEBOOK PRICES

Number of Notebooks	3	6	9	12	15
Price (dollars)	6	9	12	15	18

35 A diagram of a right rectangular prism is shown below.



What is the volume, in cubic inches, of the right rectangular prism?

A $17\frac{1}{12}$

B $23\frac{1}{3}$

C $120\frac{1}{2}$

D $122\frac{1}{2}$

GO ON

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

What is the coefficient in the expression $6n^5$?

Answer _____

GO ON

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

Write a numerical statement using >, <, or = that compares the two temperatures $-5°$ Fahrenheit and $-9°$ Fahrenheit.

Answer _____

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

Bella has a collection of 150 baseball cards. Dan has 43 fewer baseball cards in his collection than Bella has. Write and solve an equation to determine how many baseball cards, *c*, Dan has.

Show your work.

Answer _____ cards

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

The rules for creating two number patterns are shown below.

x: Start at 2, add 2

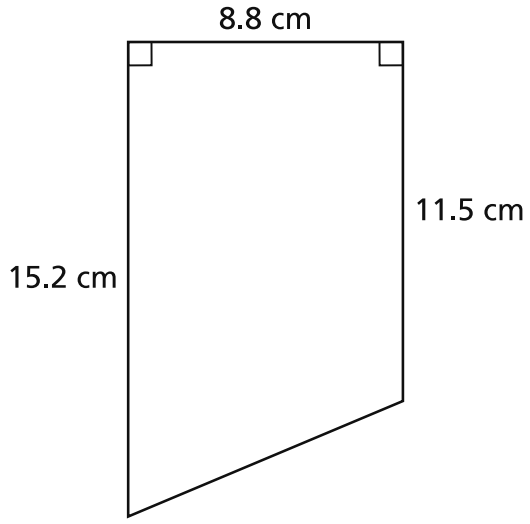
y: Start at 4, add 4

How do the corresponding values of x and y relate to each other? Be sure to include the first 5 numbers in both numerical patterns.

Explain your answer.

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

A diagram of a trapezoid with dimensions in centimeters is shown below.



What is the area, in square centimeters, of the trapezoid?

Show your work.

Answer _____ square centimeters

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

Two stores sell the same size rolls of paper towels in different packages.

- Store A sells 6 rolls for $12.24
- Store B sells 9 rolls for $19.62

Which store has the lower price per roll of paper towels? Be sure to include the unit rate for each store in your answer.

Explain your answer.

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

Evaluate the expression $3(4^3 - 6^2) + 7(2 + 1)^3$.

Show your work.

Answer _____

46 **This question is worth 3 credits.**

Jackie is making batches of trail mix based on the information listed below.

- She has $4\frac{3}{4}$ cups of dried bananas.
- She uses $\frac{1}{3}$ cup of dried bananas in each full batch of trail mix.

What is the maximum number of full batches of trail mix Jackie can make with the dried bananas she has?

Explain your answer.

STOP

Grade 6
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 6

Question	Type	Key	Points	Standard	Cluster	Subscore	Secondary Standard(s)
Session 1							
1	Multiple Choice	A	1	NGLS.Math.Content.NY-6.RP.2	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
2	Multiple Choice	D	1	NGLS.Math.Content.NY-6.NS.5	The Number System	The Number System	
3	Multiple Choice	A	1	NGLS.Math.Content.NY-6.RP.3d	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
4	Multiple Choice	B	1	NGLS.Math.Content.NY-6.EE.2c	Expressions and Equations	Expressions and Equations	
5	Multiple Choice	C	1	NGLS.Math.Content.NY-6.G.3	Geometry		
6	Multiple Choice	D	1	NGLS.Math.Content.NY-6.EE.6	Expressions and Equations	Expressions and Equations	
8	Multiple Choice	A	1	NGLS.Math.Content.NY-6.NS.6a	The Number System	The Number System	
9	Multiple Choice	C	1	NGLS.Math.Content.NY-6.NS.1	The Number System	The Number System	
10	Multiple Choice	D	1	NGLS.Math.Content.NY-6.RP.3a	Ratios and Proportional Relationships	Ratios and Proportional Relationships	NGLS.Math.Content.NY-6.RP.3b
11	Multiple Choice	C	1	NGLS.Math.Content.NY-6.G.2	Geometry		
12	Multiple Choice	B	1	NGLS.Math.Content.NY-6.RP.1	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
14	Multiple Choice	B	1	NGLS.Math.Content.NY-6.EE.9	Expressions and Equations	Expressions and Equations	
15	Multiple Choice	C	1	NGLS.Math.Content.NY-6.RP.3d	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
16	Multiple Choice	B	1	NGLS.Math.Content.NY-6.G.4	Geometry		
17	Multiple Choice	B	1	NGLS.Math.Content.NY-6.NS.4	The Number System	The Number System	
19	Multiple Choice	D	1	NGLS.Math.Content.NY-6.EE.3	Expressions and Equations	Expressions and Equations	
20	Multiple Choice	C	1	NGLS.Math.Content.NY-6.NS.7d	The Number System	The Number System	
21	Multiple Choice	D	1	NGLS.Math.Content.NY-6.RP.3b	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
22	Multiple Choice	A	1	NGLS.Math.Content.NY-6.G.5	Geometry		
23	Multiple Choice	A	1	NGLS.Math.Content.NY-6.EE.8	Expressions and Equations	Expressions and Equations	
24	Multiple Choice	C	1	NGLS.Math.Content.NY-6.RP.3c	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
26	Multiple Choice	D	1	NGLS.Math.Content.NY-6.EE.5	Expressions and Equations	Expressions and Equations	
27	Multiple Choice	D	1	NGLS.Math.Content.NY-6.EE.7	Expressions and Equations	Expressions and Equations	
28	Multiple Choice	A	1	NGLS.Math.Content.NY-6.RP.1	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
29	Multiple Choice	A	1	NGLS.Math.Content.NY-6.G.1	Geometry		
30	Multiple Choice	C	1	NGLS.Math.Content.NY-6.EE.2a	Expressions and Equations	Expressions and Equations	
Session 2							
31	Multiple Choice	B	1	NGLS.Math.Content.NY-6.RP.3c	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
32	Multiple Choice	C	1	NGLS.Math.Content.NY-6.EE.4	Expressions and Equations	Expressions and Equations	
33	Multiple Choice	B	1	NGLS.Math.Content.NY-6.NS.8	The Number System	The Number System	
34	Multiple Choice	B	1	NGLS.Math.Content.NY-6.RP.3a	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
35	Multiple Choice	D	1	NGLS.Math.Content.NY-6.G.2	Geometry		
38	Constructed Response		1	NGLS.Math.Content.NY-6.EE.2b	Expressions and Equations	Expressions and Equations	
39	Constructed Response		1	NGLS.Math.Content.NY-6.NS.7b	The Number System	The Number System	
41	Constructed Response		2	NGLS.Math.Content.NY-6.EE.7	Expressions and Equations	Expressions and Equations	
42	Constructed Response		2	NGLS.Math.Content.NY-5.OA.3	Expressions and Equations	Expressions and Equations	
43	Constructed Response		2	NGLS.Math.Content.NY-6.G.1	Geometry		
44	Constructed Response		2	NGLS.Math.Content.NY-6.RP.2	Ratios and Proportional Relationships	Ratios and Proportional Relationships	
45	Constructed Response		2	NGLS.Math.Content.NY-6.EE.1	Expressions and Equations	Expressions and Equations	
46	Constructed Response		3	NGLS.Math.Content.NY-6.NS.1	The Number System	The Number System	

*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.