

Question 1

What is the value of the expression shown below?

$$\frac{(3^2 + 5 \cdot 3)}{2^3}$$

- A 3
 - B $3\frac{1}{2}$
 - C 4
 - D $5\frac{1}{4}$
-

Question 2

A teacher asks 50 sixth grade students to vote for their favorite hobby. The table below shows the results.

FAVORITE HOBBIES

Hobby	Number of Students
Reading	12
Playing a musical instrument	11
Watching movies	9
Playing sports	18

What percent of the students voted for either playing a musical instrument or reading as their favorite hobby?

- A 12%
- B 23%
- C 46%
- D 54%

Question 3

What is the coefficient in the expression $2x^3$?

- A** 2
 - B** 3
 - C** x
 - D** $2x$
-

Question 4

Which number is **not** a solution to the inequality shown below?

$$3w \geq 12$$

- A** 3
- B** 4
- C** 5
- D** 8

Question 5

A school club includes students from four grade levels. The number of students from each grade level is shown in the list below.

- 12 students from Grade 5
- 6 students from Grade 6
- 2 students from Grade 7
- 8 students from Grade 8

What is the ratio of the total number of students in the club from Grades 5 and 6 to the total number of students in the club from Grades 7 and 8 ?

- A** 2 : 1
- B** 3 : 1
- C** 5 : 9
- D** 9 : 5
-

Question 6

Which expression represents the phrase “the sum of fifteen and five less than twice a number, n ” ?

- A** $15(5 - 2n)$
- B** $15(2n - 5)$
- C** $15 + (5 - 2n)$
- D** $15 + (2n - 5)$

Question 7

Tyrone deposits \$65 into his bank account. The next day he withdraws \$20. Which two integers represent the activity in Tyrone's bank account?

- A** -65 and -20
 - B** -65 and 20
 - C** 65 and -20
 - D** 65 and 20
-

Question 8

Mary rides her bike at an average speed of 12 miles in 1 hour. Riding at this rate, how many feet does Mary ride in 1 minute?

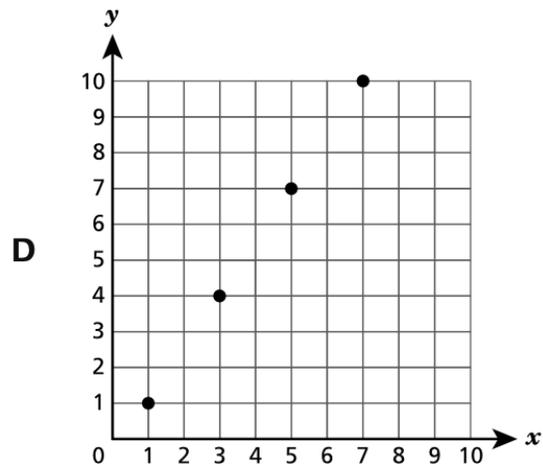
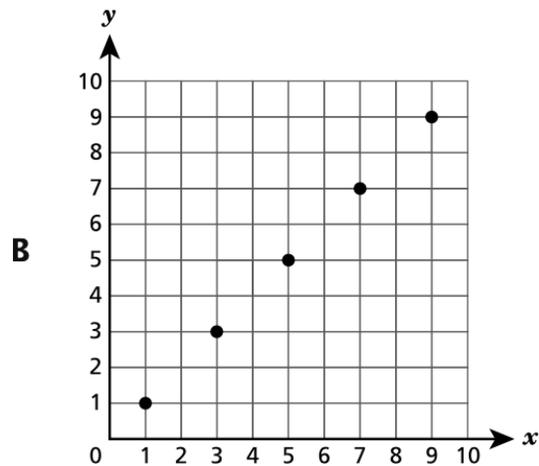
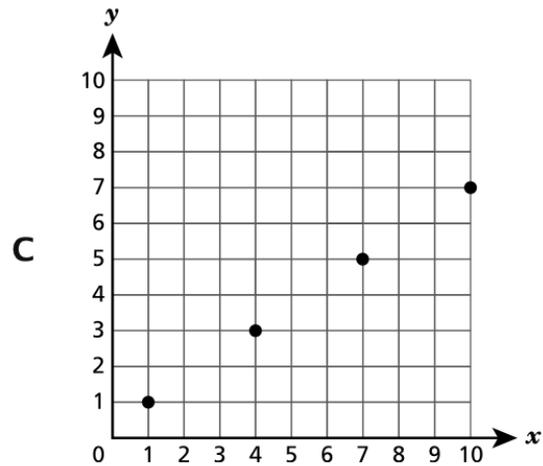
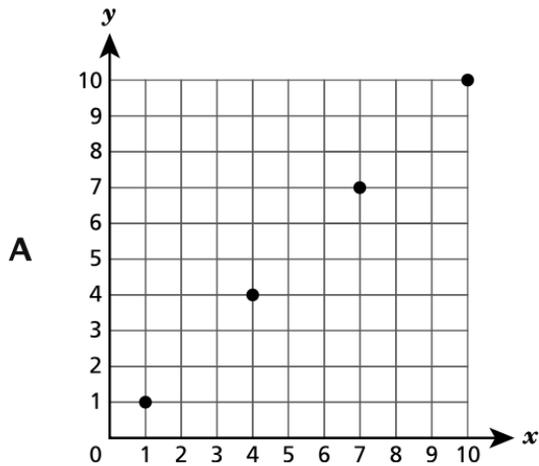
- A** 1,056
- B** 26,400
- C** 63,360
- D** 3,801,600

Question 9

The two rules shown below are used to generate sets of ordered pairs. The starting point is $(1, 1)$. The ordered pairs are then graphed on a coordinate plane.

- Rule for x coordinate: Each value is 3 more than the one before it.
- Rule for y coordinate: Each value is 2 more than the one before it.

Which graph shows the set of ordered pairs?



Question 10

A gift box is in the shape of a right rectangular prism. The gift box is $7\frac{3}{5}$ centimeters long, $5\frac{4}{5}$ centimeters wide, and $2\frac{1}{2}$ centimeters high. What is the volume, in cubic centimeters, of the gift box?

- A $15\frac{9}{10}$
 - B $70\frac{6}{25}$
 - C $110\frac{1}{5}$
 - D $155\frac{8}{50}$
-

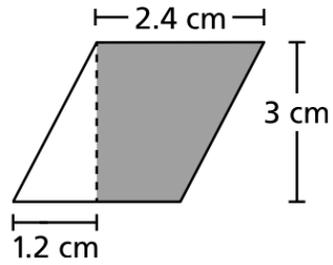
Question 11

Hannah buys oranges and apples from the grocery store. She pays \$6.25 for 5 pounds of oranges and \$6.90 for 6 pounds of apples. Which statement about the fruit is true?

- A Apples have the greater unit price at \$1.15.
 - B Apples have the greater unit price at \$1.25.
 - C Oranges have the greater unit price at \$1.15.
 - D Oranges have the greater unit price at \$1.25.
-

Question 12

The figure below shows a parallelogram with part of it shaded.

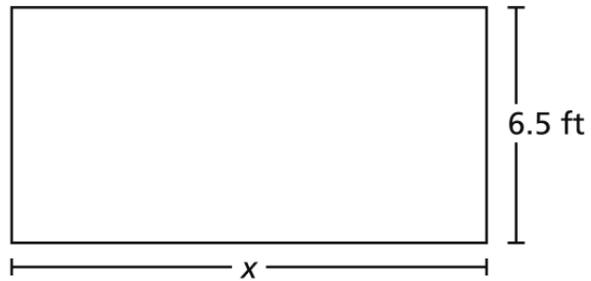


What is the area, in square centimeters, of the part of the parallelogram that is shaded?

- A 3.6
 - B 5.4
 - C 4.32
 - D 8.64
-

Question 13

The diagram below shows a rectangular garden. The perimeter of the garden is 47 feet.

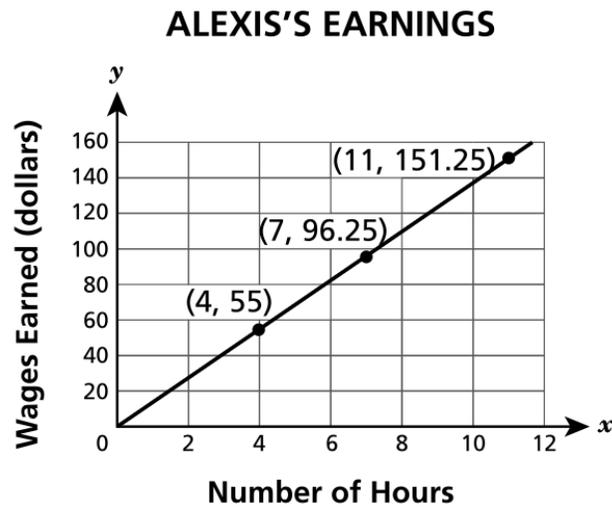


Which equation can be used to find the length, x , in feet, of the garden?

- A** $x + 13 = 47$
- B** $x + 6.5 = 47$
- C** $2x + 13 = 47$
- D** $2x + 6.5 = 47$

Question 14

Alexis has a part-time job. The graph below shows the relationship between x , the number of hours worked, and y , the wages she earned.



What is Alexis's wage earned per hour?

- A \$0.07
 - B \$1.57
 - C \$10.00
 - D \$13.75
-

Question 15

Which expression is equivalent to $(-0.3) + 1.5$?

- A** $(-0.3) + (-1.5)$
 - B** $(-1.5) + (0.3)$
 - C** $1.5 - 0.3$
 - D** $0.3 - 1.5$
-

Question 16

A chair is on sale at a discounted price of \$49.00. The regular price of the chair is \$10.00 less than 2 times the discounted price. What is the difference between the total cost of 3 regular-priced chairs and 3 chairs at the discounted price?

- A** \$39.00
 - B** \$88.00
 - C** \$117.00
 - D** \$147.00
-

Question 17

A car travels 30 miles and uses $1\frac{2}{3}$ gallons of fuel. What is the unit rate, in miles per gallon, for the car?

A $\frac{1}{50}$

B $\frac{1}{18}$

C 18

D 50

Question 18

A school sold tickets to a musical for \$8.95 per person. The musical had two performances as described below.

- On Friday night, 152 people attended.
- On Saturday night, 25% more people attended than Friday night.

What was the total amount of money earned from tickets sold on these two nights?

A \$1,700.50

B \$2,723.04

C \$2,944.55

D \$3,060.90

Question 19

Shannon has \$500.00 in her bank account. Each week, she withdraws \$40.00 from the account. If she does not deposit or withdraw any additional money, what is the maximum number of weeks she can withdraw the same amount of money and maintain a balance of at least \$200.00 ?

- A 5
 - B 7
 - C 8
 - D 12
-

Question 20

A submarine at sea level descends at a constant rate. After descending for $1\frac{1}{3}$ hours, the submarine's depth is 2,700 feet below sea level. At this rate, which value represents the depth, in feet, the submarine will have reached after descending for a total of $2\frac{1}{4}$ hours?

- A 5,805.00
- B 5,400.00
- C 4,837.50
- D 4,556.25

**END
OF
TEST**

ANSWER KEY - 2026 ROUND 3 - TEST 2

1. A	11. D
2. C	12.B
3. A	13. C
4. A	14. D
5. D	15. C
6. D	16. C
7. C	17. C
8. A	18. D
9. C	19. B
10.C	20. D