**Date:** \_\_\_\_\_

1. What is the solution of the equation below?

$$x + 8.63 = 11.001$$

- A. x = 19.631
- B. x = 10.138
- C. x = 3.471
- D. x = 2.371

2. Solve the equation below.

$$0.3r = 2.1$$

- A. r = 0.7
- B. r = 1.8
- C. r = 7
- D. r = 18

- 3. Kelly saves \$5 every week. Which expression represents the amount of money, in dollars, Kelly will save in w weeks?
  - A. 5 + w B. 5 w C. 5w D.  $\frac{5}{w}$

Which two expressions are equivalent for any value of y?

A. 
$$3(3y + 3)$$
 and  $6y + 6$ 

B. 
$$3(3y + 3)$$
 and  $9y + 6$ 

C. 
$$9(y + 3)$$
 and  $12 + 9y$ 

D. 
$$9(y+3)$$
 and  $27 + 9y$ 

- Which equation has the solution x = 2?
  - A. 2x 3 = 19 B. 3x + 2 = 8
  - C. 4x 4 = -4
- D. 5x + 1 = 10

Which expression is equivalent to the expression below?

$$g + g + g + g + g + g$$

- A. 6 + g B.  $g^6$  C. 6g D.  $\frac{g}{6}$

7. An equation is shown below.

$$12 - 9 + c = 12$$

What value of c makes the equation true?

- A. 0
- B. 3
- C. 9
- D. 12
- 8. The relationship between Robert's age, *r*, and Julia's age, *j*, can be represented by the equation shown below.

$$r = j + 3$$

Which table of values represents the relationship between Robert's age and Julia's age?

## A. POSSIBLE AGES

Robert's Age, r (years)	Julia's Age, j (years)
9	12
15	18
21	24

## B. POSSIBLE AGES

Robert's Age, r (years)	Julia's Age, j (years)
9	3
15	5
21	7

# C. POSSIBLE AGES

Robert's Age, r (years)	Julia's Age, j (years)
9	6
15	12
21	18

## D. POSSIBLE AGES

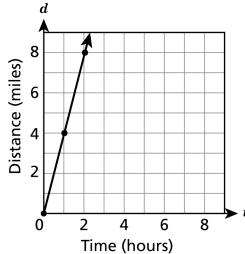
Robert's Age, r (years)	Julia's Age, j (years)
9	27
15	45
21	63

Joe walks on a treadmill at a constant rate. The equation below describes the relationship between t, the time he walks in hours, and d, the distance he walks in miles.

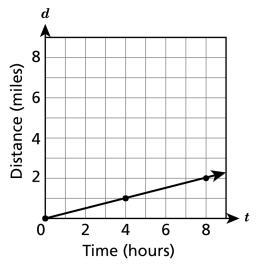
$$d = 4t$$

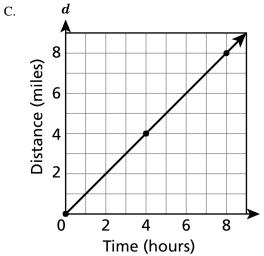
Which graph represents the relationship between the amount of time Joe walks and the distance he walks?

A.

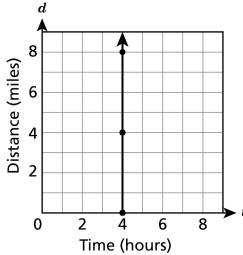


B.





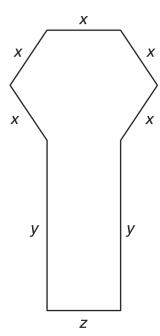
D.



- 10. Which expression is equivalent to 5(4x + 3) 2x?
  - A. 18x + 15
- B. 18x + 3
- C. 7x + 8
- D. 2x + 8

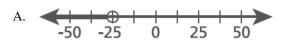
- 11. Which two expressions are equivalent?
  - A. x + x + x and  $x^3$
  - B. 14x + 10 2x and 16x + 10
  - C. 12x + 16x and 4(3x + 4x)
  - D.  $12x^2 + 5x + 10$  and  $17x^2 + 10$

12. Which expression represents the perimeter of the figure below?



- A. 5x + 2y
- B. x + y + z
- C. 5x + 2y + z
- D. (5+2+1)(x+y+z)

13. Which number line shows a graph of the inequality x > -25?



Which expression is equivalent to 60 - 3y - 9?

A. 
$$3(17 - y)$$

B. 
$$3(20 - y) - 3$$

C. 
$$17(3 - y)$$

D. 
$$20(3-3y)-9$$

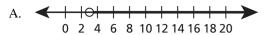
15. Evaluate:

$$6^3 + 7 \times 4$$

- A. 100
- B. 244
- C. 757
- D. 892

- 16. Which pair of expressions is equivalent?
  - A. 4(6x) and 10x
- B. 4(6x) and 24x
- C. 4x + 6x and  $10x^2$
- D. 4x + 6x and 24x

17. A printer makes more than 3 copies of a book every hour. Which graph represents the number of books made in 4 hours?



18. What is the solution to the equation below?

$$4w = \frac{2}{3}$$

A. 
$$w = \frac{2}{12}$$
 B.  $w = \frac{2}{7}$ 

B. 
$$w = \frac{2}{7}$$

C. 
$$w = \frac{8}{3}$$

D. 
$$w = 3\frac{1}{3}$$

Which pair of expressions below is equivalent?

A. 
$$x + y + x + y$$
 and  $2(x + y)$ 

B. 
$$5(2x - 3y)$$
 and  $10x - 3y$ 

C. 
$$4x - 5y$$
 and  $5y - 4x$ 

D. 
$$9x + 2y$$
 and  $11xy$ 

20. Which expression represents the phrase below?

8 less than the product of 6 and a number, x

- A. 8 6x
- B. 6x 8
- C. (6+x)-8
- D. 8 (6 + x)

21. Jason has a coupon for \$2.50 off any electronic book from an online book store. If the original price, in dollars, of an electronic book is p and the discounted price, in dollars, is d, which table shows the relationship between p and d?

A.	p	3.00	4.00	5.00	6.00
	d	0.50	1.50	2.50	3.50

- B. 3.00 4.00 5.00 6.00 d 5.50 6.50 7.50 8.50
- C. 3.00 4.00 5.00 6.00 d 2.50 2.50 2.50 2.50
- D. 3.00 5.00 4.00 6.00 p d 7.50 10.00 12.50 15.00

- 22. Which pair of expressions below are equivalent?
  - A. 7(2x) and 9x
  - B. 3x + 5x and 15x
  - C. 4(2x-6) and 8x-24
  - D. x + x + x + x and  $x^4$

23. A shelf has four books on it. The weight, in pounds, of each of the four books on the shelf is listed below.

Which inequality represents the weight, w, of any book chosen from the shelf?

- A. w > 2.3
- B. w < 2.4
- C. w > 3.2
- D. w < 3.3
- 24. The weight of an object on the moon, m, is about  $\frac{1}{6}$  of the object's weight on Earth, e.

Which equation represents the approximate weight of an object on the moon in terms of the object's weight on Earth?

- A.  $m = \frac{1}{6} + e$  B.  $m = \frac{e}{6}$
- C. m = 6 + e D. m = 6e

25. The table below lists the coordinates of four points.

#### **COORDINATES**

х	у
1	5
2	7
3	9
4	11

If x represents any number in the first column, which expression can always be used to find the value of y in the second column?

- A. 5*x*

- B. x + 2 C. x + 4 D. 2x + 3

- 26. Which expression is represented by the phrase "the square of y decreased by the quotient of 28 and
  - A.  $\frac{28}{7} y^2$
- B.  $y^2 \frac{28}{7}$

- 27. John's friend told him that he could earn \$49 for handing out flyers at a local concert. John wants to calculate the hourly rate. If he works a total of 3.5 hours, the equation 3.5x = 49 can be used to determine his hourly rate. What would John's hourly rate be, in dollars?
  - A. \$1.40
- B. \$14.00
- C. \$45.50
- D. \$171.50

The Frenchtown Roller Rink charges a \$5 entrance fee and an hourly rate for roller skating. The total cost for roller skating depends on the number of hours a person skates. The table below represents the total cost of skating for different numbers of hours.

ROLLER SKATING COST

Number of Hours (h)	Total Cost in Dollars (c)
0	5
1	8
2	11
3	14
4	17

Which equation represents the relationship between the cost, c, and the number of hours, h?

- A. c = 8h
- B. c = 5h + 3
- C. c = 2h + 7
- D. c = 3h + 5

- 29. Chakan worked at the warehouse after school. He earned \$9.25 per hour stacking boxes. Which equation correctly relates Chakan's total earnings, d, to the number of hours he worked, h?
  - A. d = 9.25h
- B. h = 9.25d
- C.  $d = \frac{9.25}{h}$  D.  $h = \frac{9.25}{d}$

30. Zelma buys *p* pounds of bananas for 40 cents per pound. She pays the clerk with a twenty-dollar bill. The clerk subtracts the total cost of the bananas from the twenty-dollar bill to determine the amount of change to give Zelma.

Which expression represents the amount of change Zelma should receive?

- A. p 20
- B. 20 40p
- C. 20 0.40p
- D. 0.40p 20

31. What value of y makes the equation below true?

$$y + 2.9 = 11$$

- A. 8.1
- B. 8.9
- C. 9.1
- D. 13.9

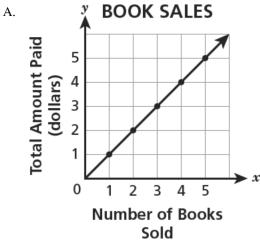
- 32. In which set do all of the values make the inequality 2x 1 < 10 true?
  - A. {10, 15, 20}
- B. {5, 7, 9}
- C. {4, 6, 8}
- D. {2, 3, 4}

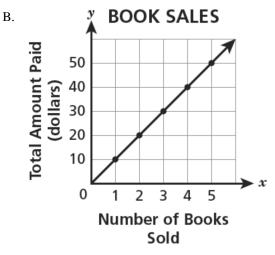
33. What is the value of the expression below?

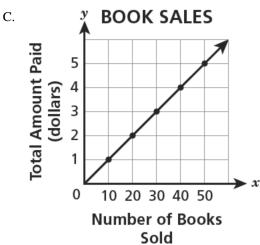
$$2[3(4^2+1)]-2^3$$

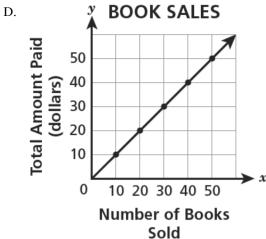
- A. 156
- B. 110
- C. 94
- D. 48

34. A bookstore is selling books for \$10 each. Which graph shows the relationship between the number of books, x, the store sold and the total amount of money, y, paid from the book sales?









35. A carpenter built three bookcases, A, B, and C, to stand next to each other along a wall. The total length of the wall is 456 centimeters. The carpenter will build two more bookcases, D and E, along the same wall. These two bookcases will have equal widths. The widths of bookcases A, B, and C are shown in the table below.

WIDTHS OF **BOOKCASES** 

Bookcase	Width (centimeters)
A	132
В	94
С	108
D	w
Е	w

Write and solve an equation to determine w, the greatest possible width for bookcases D and E.

- 36. Which phrase is a description of 2m + 7?
  - A. 7 more than 2 times m
  - B. 2 more than 7 times m
  - C. 2 times the sum of 7 and m
  - D. 7 times the sum of 2 and m

37. George has \$23 to spend on art supplies. He wants to buy markers, paper, and glue. If the total cost of the markers and paper is more than \$14, which inequality represents the dollar amount, p, George can spend on glue?

A. 
$$p < 9$$

B. 
$$p > 9$$

C. 
$$p < 37$$

D. 
$$p > 37$$

38. A student formed a pattern in which each term is represented by a sum. The first four terms of the pattern are shown below.

n	Sum	
1	1	
2	1 + 3	
3	1 + 3 + 5	
4	1 + 3 + 5 + 7	

Which expression can be used to determine the value of the sum in any term, n?

$$A n^2$$

C. 
$$n + 3$$
 D.  $2^n$ 

39. Which expression is equivalent to 5(6x + 3y)?

A. 
$$11x + 3y$$

B. 
$$11x + 8y$$

C. 
$$30x + 3y$$

D. 
$$30x + 15y$$

40. Which pair of expressions is equivalent for any variable value greater than zero?

A. 
$$3(x + 2)$$
 and  $3x + 2$ 

B. 
$$4d + 2e$$
 and  $8d + e$ 

C. 
$$f+f+f+g$$
 and  $3fg$ 

D. 
$$b + b + 3c$$
 and  $2b + 3c$ 

41. The surface area, *S*, of a right rectangular prism with length *l*, width *w*, and height *h* can be found using the formula below.

$$S = 2(lw + wh + hl)$$

What is the surface area, in square inches, of a prism with a length of 12 inches, a width of 9 inches, and a height of 2 inches?

42. In 2010, Kim-Ly earned \$17.50 for 2 hours of work. Which table shows the relationship between the number of hours worked and Kim-Ly's total earnings, if her rate per hour is constant?

A.	Number of Hours	Total Earnings
	1	\$17.50
	2	\$35.00
	3	\$52.50
	4	\$70.00

B.	Number of Hours	Total Earnings
	1	\$17.50
	2	\$17.50
	3	\$17.50
	4	\$17.50

C.	Number of Hours	Total Earnings
	1	\$16.50
	2	\$17.50
	3	\$18.50
	4	\$19.50

D.	Number of Hours	Total Earnings
	1	\$8.50
	2	\$17.50
	3	\$26.25
	4	\$35.00

- 43. Rosa has a goal of running a total of 100 miles this month. Each day that she ran, she ran 5 miles. Which expression could Rosa use to determine how many miles she has left to run after running for d days?
  - A. 100 5d
- B. 5d + 100
- C.
- D. 5*d*

44. Which value or values for the variable c from the set below will make  $5.6 + 0.4c \le 6c$  true?

$$\{0, 0.875, 1, 2.5\}$$

- A. only 2.5
- B. 1 and 2.5
- C. 0.875, 1, and 2.5
- D. all values in the set

45. The two expressions below are equivalent.

$$y(2.5 + 7) + y - 2$$
$$10.5y - 2$$

Which statement best explains why the expressions are equivalent?

- A. The expressions have the same value for any value of y.
- B. The expressions have the same value for only whole number values of y.
- C. The expressions have the same value only when y is an odd number.
- D. The expressions have the same value only when y is an even number.

46. Which quantity could go in the blank to make the equation below true?

$$x + 2x + \underline{\hspace{1cm}} = 5x$$

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

- 47. A sandwich shop sells sandwiches for \$5.95 each, including tax. The shop received a total of \$71.40 from the sales of sandwiches one afternoon. Which equation can be used to determine the number of sandwiches, x, sold by the sandwich shop that afternoon?
  - A. 5.95 + x = 71.40
- B.  $5.95 \div 71.40 = x$
- C. 5.95x = 71.40
- D.  $5.95 \div x = 71.40$

48. The set of numbers 1, 7, 11, and 36 contains values for m. What value of m makes the equation below true?

$$4m + 8 = 36$$

- A. 1
- B. 7
- C. 11
- D. 36

49. What is the value of the expression below when c = 5 and d = 4?

$$6c^2 - 5d + 8$$

- A. 48
- B. 79
- C. 138
- D. 888

- 50. Which expression is equivalent to 3(6m) + m?
  - A. 19m
- B. 21m
- C. 7m + 3
- D.  $18m + 6m^2$

- 51. Nadia bought 5 tickets to attend a spaghetti supper fundraiser at her school. The equation 5x = 32.50can be used to find x, the cost of each ticket in dollars. Which equation represents the cost of each ticket?

  - A.  $x = \frac{32.50}{5}$  B. x = 32.50(5)
  - C. x = 32.50 5
- D. x = 32.50 + 5

52. What is the value of the expression below when z = 7?

$$3z - 3$$

- A. 12
- B. 18
- C. 21
- D. 34

- 53. Which equation is true when n = 4?
  - A. 2n = 6
- B. n + 3 = 7
- C. 9 n = 13 D.  $\frac{n}{12} = 3$

- 54. Which expression is equivalent to 5(d + 1)?
  - A. 5d + 5
- B. 5d + 1
- C. d + 5
- D. d + 6

- 55. Which expression is equivalent to 8x 2y + x + x?
  - A. 4*x*
- B. 8*x*
- C. 6x 2y
- D. 10x 2y

- 56. Which situation can be represented by the expression 1.3x?
  - A. the total cost of an item that is x dollars more than \$1.30
  - B. the area of a rectangle with side lengths 1.3 and x
  - C. the amount of change when \$1.30 is used to pay for an item costing x dollars
  - D. the number of square feet in each lot when 1.3 acres is partitioned into *x* equal sections

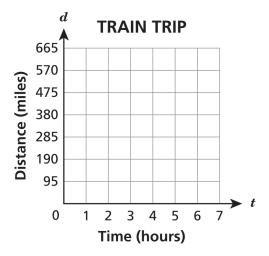
57. A train was traveling at a constant speed. The table below shows the distance, in miles, the train traveled for the first 4 hours.

TRAIN TRIP

Time (hours)	Distance (miles)
1	95
2	190
3	285
4	380

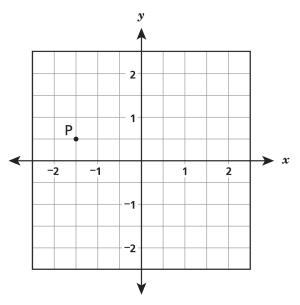
Write an equation to represent the relationship between t, the time, and d, the total distance traveled by the train.

On the grid below, draw a graph of the relationship between t and d for a trip that lasted from 0 to 7 hours.



If the train was traveling nonstop, how many miles would it travel in 5.5 hours?

58. What is the x-coordinate of point P on the coordinate grid?



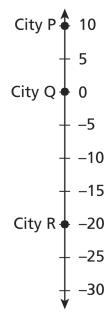
- A.  $-1\frac{1}{2}$  B.  $-\frac{1}{2}$
- C.  $\frac{1}{2}$
- D.  $1\frac{1}{2}$

- 59. What is the value of  $\frac{5}{6} \div \frac{3}{7}$ ?
  - A.  $\frac{15}{42}$  B.  $\frac{18}{35}$  C.  $\frac{35}{18}$  D.  $\frac{42}{15}$

- 60. What is the greatest common factor of 56 and 92?
  - A. 2
- B. 4
- C. 7
- D. 8

- 61. What is the greatest common factor of 36 and 90?
  - A. 6
- B. 18
- C. 36
- D. 180

The elevations, in feet, of three cities are marked on the number line shown below.

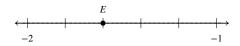


The point O on the number line represents sea level. Which statement must be true?

- City P and City Q are above sea level.
- City Q and City R are below sea level.
- City P is above sea level and City Q is below sea level.
- D. City P is above sea level and City R is below sea level.

- 63. The length of a rectangular parking lot at the airport is  $\frac{2}{3}$  mile. If the area is  $\frac{1}{2}$  square mile, what is the width of the parking lot?
  - A.  $\frac{1}{3}$  mile
- B.  $\frac{3}{4}$  mile
- C.  $1\frac{1}{6}$  mile
- D.  $1\frac{1}{3}$  mile

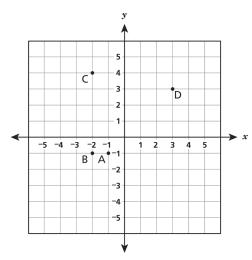
64. Which number best represents the location of point E on the number line below?



- A. -1.8
- B. -1.6
- C. -1.5
- D. -1.3

- 65. The coordinates of point A are (-6, 4). The coordinates of point B are (3,4). Which expression represents the distance, in units, between points A and B?
  - A. |-6| + |3|
    - B. |3| |-6|
  - C. |-6| + |-4| D. |4| |-6|

66. Point G is the point (3, -1).



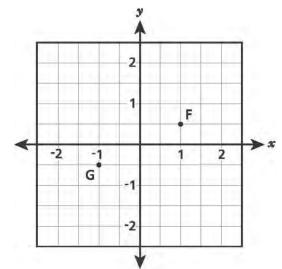
Which point is 5 units from point G?

- A. point A
- B. point B
- C. point C
- D. point D

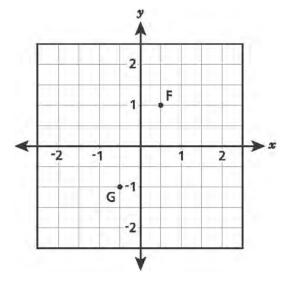
- An art teacher had  $\frac{2}{3}$  gallon of paint to pour into containers. If he poured  $\frac{1}{8}$  gallon of paint into each container until he ran out of paint, how many containers had paint in them, including the one that was partially filled?
  - A. 1
- B. 3
- C. 5
- D. 6

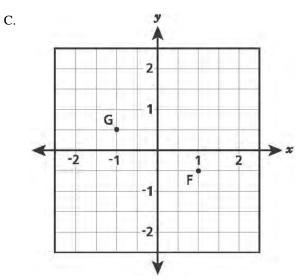
68. The coordinates of point F are (1,0.5) and the coordinates of point G are (-1,-0.5). Which coordinate plane below correctly shows the locations of points F and G?

A.

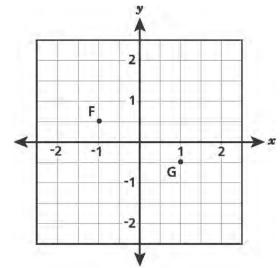


B.

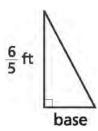




D.



69. The area of the triangle below is  $\frac{2}{5}$  square foot.



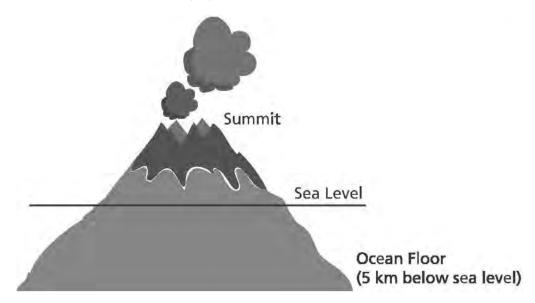
What is the length, in feet, of the base of the triangle?

- A.  $\frac{24}{25}$  B.  $\frac{25}{24}$  C.  $\frac{2}{3}$  D.  $\frac{3}{2}$

70. Point *M* represents the opposite of  $-\frac{1}{2}$  and point *N* represents the opposite of  $\frac{5}{2}$ .

Which number line correctly shows points Mand N?

71. The summit of a volcano is 10 kilometers (km) above the ocean floor, as shown below.



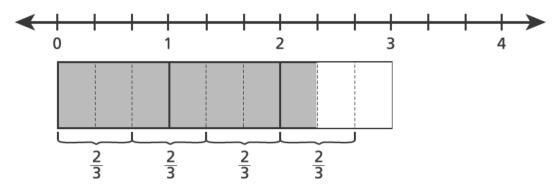
If the ocean floor has an elevation of -5 kilometers, which statement describes the elevation of sea level and the summit?

- A. The elevation of sea level is 0 km and the elevation of the summit is 5 km.
- B. The elevation of sea level is 5 km and the elevation of the summit is 5 km.
- C. The elevation of sea level is 0 km and the elevation of the summit is 10 km.
- D. The elevation of sea level is 5 km and the elevation of the summit is 10 km.

- Point A and point B are placed on a number line. Point A is located at -20 and point B is 5 less than point A. Which statement about point B is true?
  - A. It is located at -25 and is to the right of point A on the number line.
  - It is located at -15 and is to the right of point A on the number line.
  - It is located at -25 and is to the left of point A on the number line.
  - D. It is located at -15 and is to the left of point A on the number line.

- 73. Maddy had a piece of ribbon that was  $3\frac{1}{2}$  yards long. She used this ribbon to make bows. Each bow was made from a piece of the ribbon that was  $\frac{3}{4}$  yard long. This situation can be represented by the equation  $3\frac{1}{2} \div \frac{3}{4} = 4\frac{2}{3}$ . Which statement best describes what the quotient  $4\frac{2}{3}$  represents in the situation above?
  - Maddy had bows that were each  $4\frac{2}{3}$  yards long.
  - Maddy had  $4\frac{2}{3}$  yards of ribbon left after making the bows.
  - Maddy made 4 bows from the piece of ribbon and had  $\frac{2}{3}$  of a yard left.
  - Maddy made 4 bows from the piece of ribbon and had enough left for  $\frac{2}{3}$  of a bow.

The model below represents a division problem.



Which equation is represented by the model?

A. 
$$2\frac{1}{3} \div \frac{2}{3} = 3\frac{1}{2}$$

B. 
$$2\frac{1}{3} \div \frac{2}{3} = 3\frac{1}{5}$$

C. 
$$\frac{7}{1} \div \frac{1}{3} = 2\frac{1}{3}$$

A. 
$$2\frac{1}{3} \div \frac{2}{3} = 3\frac{1}{2}$$
 B.  $2\frac{1}{3} \div \frac{2}{3} = 3\frac{1}{3}$  C.  $\frac{7}{1} \div \frac{1}{3} = 2\frac{1}{3}$  D.  $\frac{2}{3} \div 3\frac{1}{2} = 2\frac{1}{3}$ 

- 75. Jason will use a  $3\frac{1}{3}$ -gallon pitcher to fill an empty  $\frac{3}{4}$ -gallon water jug. How much water will he need in order to completely fill the water jug?
  - A. between 1 and 2 full pitchers
  - B. between 2 and 3 full pitchers
  - C. about  $\frac{1}{2}$  of a full pitcher
  - D. about  $\frac{1}{4}$  of a full pitcher

- 76. What is the greatest common factor of 42 and 84?
  - A. 7
- B. 21
- C. 42
- D. 84

- 77. What is the least common multiple of 4 and 10?
  - A. 14
- B. 20
- C. 40
- D. 60

78. Which point on the number line below represents the number opposite the number  $-5\frac{1}{2}$ ?



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

79. The inequality below compares two rational numbers.

$$-\frac{8}{18} > -\frac{17}{27}$$

If the two numbers were plotted as values on a horizontal number line, which statement would be true?

- A. Both numbers lie to the right of 0, and  $-\frac{8}{18}$  lies to the left of  $-\frac{17}{27}$ .
- B. Both numbers lie to the left of 0, and  $-\frac{8}{18}$  lies to the left of  $-\frac{17}{27}$ .
- C. Both numbers lie to the right of 0, and  $-\frac{8}{18}$  lies to the right of  $-\frac{17}{27}$ .
- D. Both numbers lie to the left of 0, and  $-\frac{8}{18}$  lies to the right of  $-\frac{17}{27}$ .

- 80. Two whole numbers have a least common multiple of 60.
  - Each number is less than or equal to 12.
  - The greatest common factor of the two numbers is 2.

What are the two numbers?

- A. 6 and 10
- B. 5 and 12
- C. 10 and 12
- D. 12 and 15

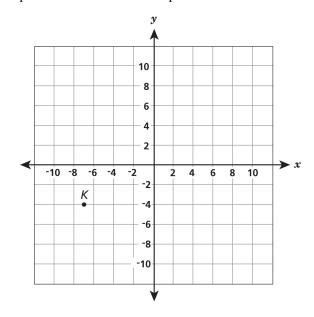
- Machines S and T were both cleaned this week. 81.
  - Machine S is cleaned every 12 weeks.
  - Machine T is cleaned every 8 weeks.

What is the fewest number of weeks that will pass before both machines are cleaned again in the same week?

- A. 16
- B. 24
- C. 36
- D. 48

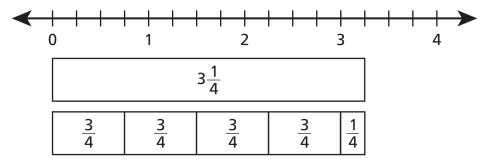
- 82. The area of a rectangular city park is  $\frac{25}{54}$  square miles. The length of the park is  $\frac{5}{9}$  mile. What is the width, in miles, of the park?
- A.  $\frac{4}{9}$  B.  $\frac{5}{6}$  C.  $1\frac{1}{54}$  D.  $1\frac{1}{5}$

83. What coordinates best represent the location of point *K* on the coordinate plane below?



- A. (-7, -4)
- B. (-7,4)
- C. (-4, -7)
- D. (-4,7)

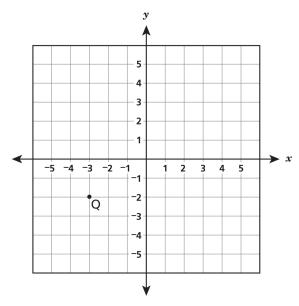
84. Which expression is modeled by the diagram below?



- A.  $3\frac{1}{4} \div \frac{3}{4}$
- B.  $\frac{3}{4} \div 3\frac{1}{4}$
- C.  $3 \div \frac{1}{4}$
- D.  $\frac{1}{4} \div 3$

- 85. The coordinates of the vertices of a rectangle are (-2,3), (4,3), (4,-4), and (-2,-4). What are the dimensions of the rectangle?
  - A. 1 unit by 2 units
- B. 1 unit by 6 units
- C. 7 units by 2 units
- D. 7 units by 6 units

86. Point Q is shown on the coordinate grid below.



Which statement correctly describes the relationship between the point (-3, 2) and point Q?

- A. It is a reflection across the x-axis.
- B. It is a reflection across the y-axis.
- C. They are 6 units apart.
- D. They are 2 units apart.

87. Carol has  $1\frac{5}{8}$  cups of yogurt to make smoothies. Each smoothie uses  $\frac{1}{3}$  cup of yogurt.

What is the maximum number of smoothies that Carol can make with the yogurt?

- A. 1
- B. 4
- C. 5
- D. 7
- 88. Keith wants to plot -8 and -9 on a number line. Which statement is true?
  - A. Keith should plot -8 to the left of -9 because -8 < -9.
  - B. Keith should plot -8 to the left of -9 because -8 > -9.
  - C. Keith should plot -9 to the left of -8 because -9 < -8.
  - D. Keith should plot -9 to the left of -8 because -9 > -8.
- 89. Omar has  $2\frac{3}{4}$  cups of dough to make dumplings. If he uses  $\frac{3}{16}$  cup of dough for each dumpling, how many whole dumplings can Omar make?
  - A. 13
- B. 14
- C. 15
- D. 16

- 90. Wyatt hiked 6 miles in 2 hours. At this same rate, what is the total number of miles Wyatt could hike in 9 hours?
  - A. 3
- B. 7
- C. 21
- D. 27