

DIRECTIONS

Read each question carefully. Choose the best answer to each question. For open-response questions, determine the best answer to the question.

- 1 A recipe for one batch of cookies uses 1.25 cups of butter. How many cups of butter are needed to make 6 batches of cookies?

☐ A 7.5 cups
☐ B 4.75 cups
☐ C 7.25 cups
☐ D 6.5 cups

- 2 Which numbers have a value less than 1.069?

Select **TWO** correct answers.

☐ 1.08
☐ 1.1
☐ 1.052
☐ 1.071
☐ 1.003

- 3 Dyna's house is 6.85 kilometers from Carl's house. Sanjay's house is $2\frac{3}{10}$ kilometers closer to Carl's house than Dyna's house is.

What is the distance in kilometers from Sanjay's house to Carl's house?

- (A) 9.15 km
- (B) 4.55 km
- (C) 8.15 km
- (D) 4.82 km

5 The table represents a relationship between x and y .

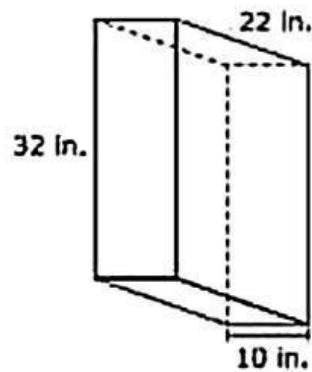
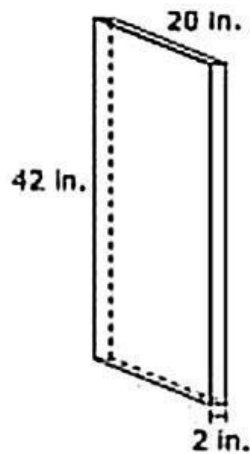
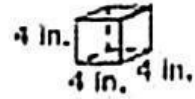
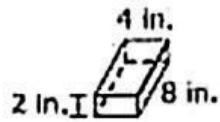
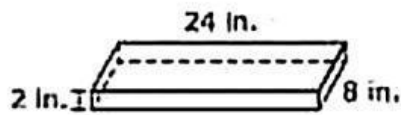
x	y
4	14
8	18
16	26
32	42

Which statement about the relationship between x and y is true?

- (A) It is a multiplicative pattern because each x -value is a multiple of 4.
- (B) It is a multiplicative pattern because each y -value is a multiple of 2.
- (C) It is an additive pattern because each y -value can be determined by finding the sum of the previous x - and y -values.
- (D) It is an additive pattern because each y -value is determined by adding 10 to the corresponding x -value.

6 Which rectangular prisms have a volume of 64 cubic inches?

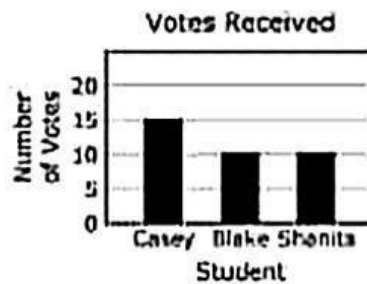
Circle **TWO** correct answers.



7 A farmer divided 124.8 pounds of berries equally into 8 baskets. How many pounds of berries went into each basket?

- (A) 1.56 lb
- (B) 10.6 lb
- (C) 3.1 lb
- (D) 15.6 lb

- 8 Three students ran for class president. The bar graph shows the number of votes each student received.



What fraction of the total votes received were for Casey?

- Ⓐ $\frac{3}{4}$
- Ⓑ $\frac{3}{7}$
- Ⓒ $\frac{1}{15}$
- Ⓓ $\frac{1}{3}$
-
- 9 A jar contains 110 coins. There are 15 quarters and 62 nickels. The rest of the coins are dimes.
- Which equation can be used to find d , the total number of dimes in the jar?
- Ⓐ $d = 110 + 62 - 15$
- Ⓑ $d = 110 - 62 + 15$
- Ⓒ $d = 110 + 62 + 15$
- Ⓓ $d = 110 - 62 - 15$

10 What is the value of the expression shown?

$$(8 \times 4 + 2) \div 2$$

- ☐ A 24
 - ☐ B 9
 - ☐ C 17
 - ☐ D 33
-

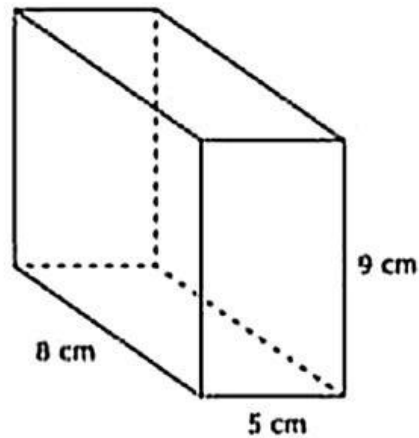
11 An expression is shown.

$$8\frac{1}{2} + 3 - 1\frac{1}{4}$$

What is the value of the expression?

Record your answer in the space provided.

- 12 The rectangular prism shown has dimensions in centimeters.



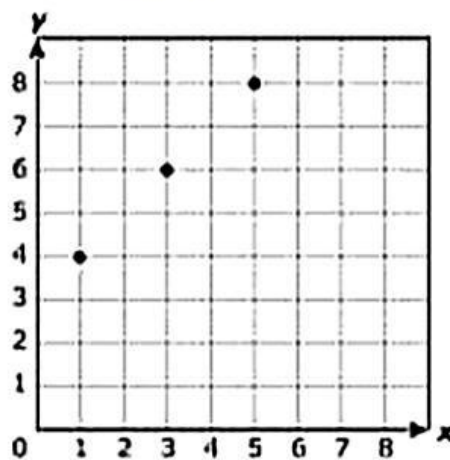
The prism will be completely filled with unit cubes that each have a volume of 1 cubic centimeter. How many of these cubes are needed to fill the prism?

- Ⓐ 360
 - Ⓑ 22
 - Ⓒ 117
 - Ⓓ 44
-
- 13 A shop ordered 362 candles for \$15 each. What was the total cost of the candles?
- Ⓐ \$6,670
 - Ⓑ \$2,172
 - Ⓒ \$5,120
 - Ⓓ \$5,430

14 In which number is the digit 5 in the hundredths place?

- Ⓐ 4,562.87
- Ⓑ 1,642.705
- Ⓒ 7,623.159
- Ⓓ 8,236.506

15 The points on the grid represent values for $y = x + 3$.



Which ordered pairs represent other points on the graph for this equation?

Select **TWO** correct answers.

- ☐ (4, 1)
- ☐ (0, 3)
- ☐ (2, 6)
- ☐ (5, 2)
- ☐ (4, 7)

16 Sahil made a wooden train that was 185 centimeters long. What is the length of the train in meters?

- ☐ Ⓐ 1.85 m
- ☐ Ⓑ 0.185 m
- ☐ Ⓒ 18,500 m
- ☐ Ⓓ 185,000 m

17 Which number is a composite number?

- ☐ Ⓐ 89
- ☐ Ⓑ 67
- ☐ Ⓒ 51
- ☐ Ⓓ 73

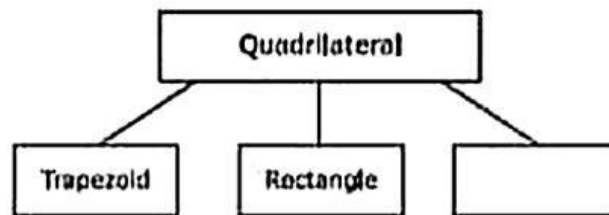
- 18** The values in the table represent the equation $y = x + 6$. Complete the table to represent the relationship between the values of x and y .

Select the correct answer for each box. Each answer may be used more than once. Not all answers will be used.

A 4 B 13 C 16 D 18 E 25 F 30

x	y
10	☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
☐ A ☐ B ☐ C ☐ D ☐ E ☐ F	19
24	☐ A ☐ B ☐ C ☐ D ☐ E ☐ F

19 The graphic organizer shows the relationship between some shapes.



Which shape could go in the empty box to correctly complete the graphic organizer?

- ☐ Ⓐ Pentagon
- ☐ Ⓑ Hexagon
- ☐ Ⓒ Triangle
- ☐ Ⓓ Rhombus

20 What is the value of $18 \div \frac{1}{2}$?

- ☐ Ⓐ 9
- ☐ Ⓑ $\frac{1}{9}$
- ☐ Ⓒ 36
- ☐ Ⓓ $\frac{1}{36}$

- 21** Pedro measured the amount of water in five different fish tanks. The table shows four of his measurements.

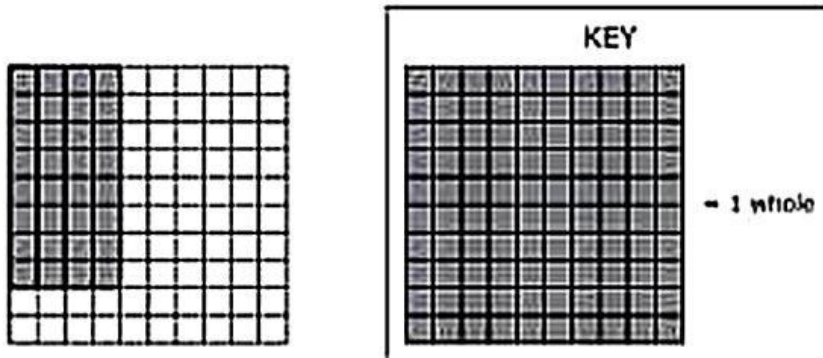
Water in Fish Tanks

Tank	Amount of Water (gallons)
V	10.1
W	10.019
X	10.9
Y	?
Z	10.009

Tank Y has the second least amount of water. Which of these could be the amount of water in Tank Y?

- Ⓐ 10.005 gallons
- Ⓑ 10.015 gallons
- Ⓒ 10.09 gallons
- Ⓓ 10.04 gallons

22 The model shown represents a division equation.

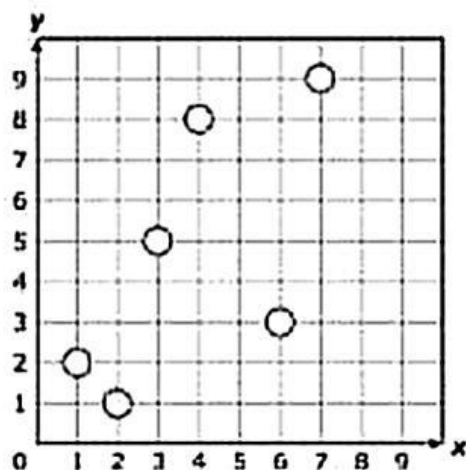


Which equation could be represented by the model?

- (A) $32 \div 4 = 8$
- (B) $0.32 \div 4 = 0.08$
- (C) $0.8 \div 4 = 0.2$
- (D) $8 \div 4 = 2$

- 23 Which points on the coordinate grid represent ordered pairs where the y -coordinate is 2 times the x -coordinate?

Shade the **TWO** correct circles that represent the points.



-
- 24 It took Janelle 12.75 hours to read a book. She read for the same amount of time each day for 5 days. What was the total amount of time, in hours, she spent reading the book each day?

- Ⓐ 2.11 h
- Ⓑ 2.55 h
- Ⓒ 63.75 h
- Ⓓ 17.75 h

25 Mishall's budget for June showed an income of \$80 and expenses of \$100. Which actions could Mishall take to balance her budget for June?

- Ⓐ Increase expenses and decrease income
 - Ⓑ Increase expenses and increase income
 - Ⓒ Decrease expenses and decrease income
 - Ⓓ Decrease expenses and increase income
-

26 What is the value of the expression shown?

$$5[6.2 - 3(1.6)]$$

- Ⓐ 7
 - Ⓑ 26.2
 - Ⓒ 23
 - Ⓓ 25.6
-

27 Trevor bought 6 shirts for \$12.80 each. What was the total cost of the 6 shirts?

- Ⓐ \$18.80
- Ⓑ \$100.80
- Ⓒ \$76.80
- Ⓓ \$72.80