Directions: Answer all the questions on the test. When you are finished with a question, go on to the next question.

Read questions 1 through 2 and select the best answer.

1 **Marion is driving between two towns that are close together. If she drives 1/5 the distance of the trip in 15 minutes, what is her rate per hour?**

A. $\frac{1}{75}$ of the trip per hour

B. $\frac{4}{5}$ of the trip per hour

C. $\frac{5}{4}$ of the trip per hour

D. $\frac{15}{5}$ of the trip per hour

2 **A cheetah can run $2\frac{2}{5}$ kilometers in $1\frac{1}{2}$ minutes at top speed. What is the top speed of a cheetah in kilometers per hour?**

A. 54 kilometers per hour

B. 96 kilometers per hour

C. 144 kilometers per hour

D. 216 kilometers per hour

Go On

Question 3 may have more than one correct answer. Select ALL the answers that are correct.

3 **Which of the tables show a proportional relationship between the *x*- and *y*-values? Choose the TWO correct answers.**

A.

x	y
2	3
4	5
6	7
8	9
10	11

B.

x	y
1	1
2	4
3	9
4	16
5	25

C.

x	y
1	3
2	6
3	9
4	12
5	15

D.

x	y
2	1
4	2
6	3
8	4
10	5

Go On

Read question 4 and select the best answer.

4 **Use this coordinate plane to help answer the question.**
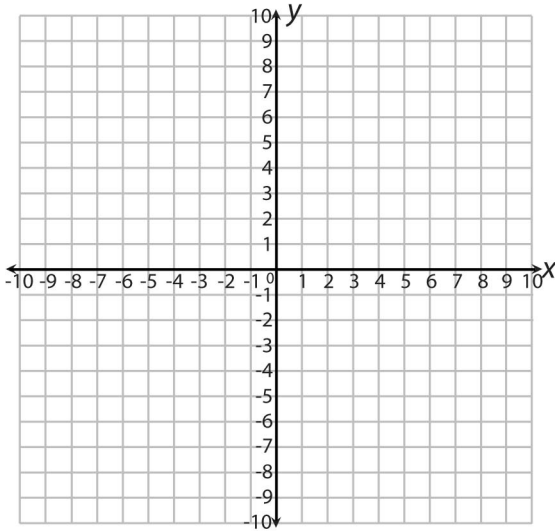
Which two points belong to the graph of a proportional relationship?

A. $(1, 2)$ and $(4, 5)$

B. $(4, 2)$ and $(2, 2)$

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

D. $(0, -2)$ and $(2, 0)$

Go On

5   **Karley sells baskets of tomatoes at her father's vegetable stand. Different numbers of baskets and the costs are shown in the table.**

Baskets of Tomatoes at a Vegetable Stand

Number of Baskets	4	6	8	10	12
Cost ($)	10	15	20	25	30

What is the cost per basket for the tomatoes?

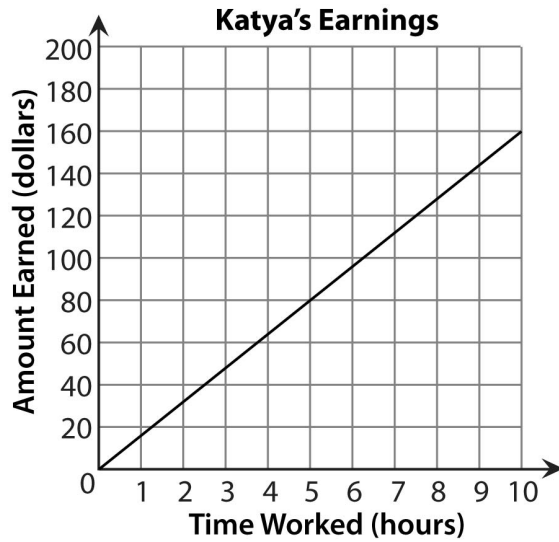**Use the on-screen keyboard to type the answer in the box below.**

This question must be answered online.

Read question 6 and select the best answer.

6 **The graph shows how the amount of money Katya earns depends on the time she works.**

Katya's Earnings

How much does Katya earn per hour?

A. $16.00 per hour

B. $6.25 per hour

C. $20.00 per hour

D. $1.60 per hour

7 Some real-world relationships are described below. Each can be represented by an equation $y = kx$ where x is the independent variable and k is the constant of proportionality.

Drag and drop the equations into each box that correctly represents the relationship.

This question must be answered online.

Read questions 8 through 12 and select the best answer.

8 The graph below shows the relationship between the number of color copies a copier makes (n) and the time it takes to make them (t) .
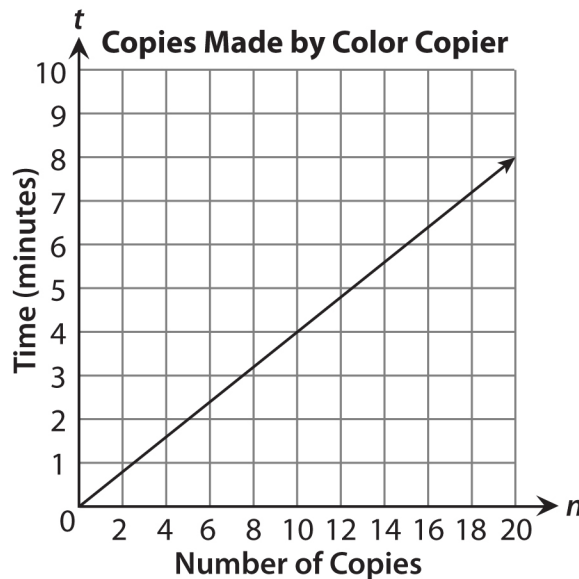
Which equation represents this relationship?

A. $t = 0.4n$ **C.** $t = 8n$

B. $t = 12n$ **D.** $t = 2.5n$

Go On

9 **The graph below shows the relationship between x, the number of movie tickets purchased, and y, the cost of the tickets.**
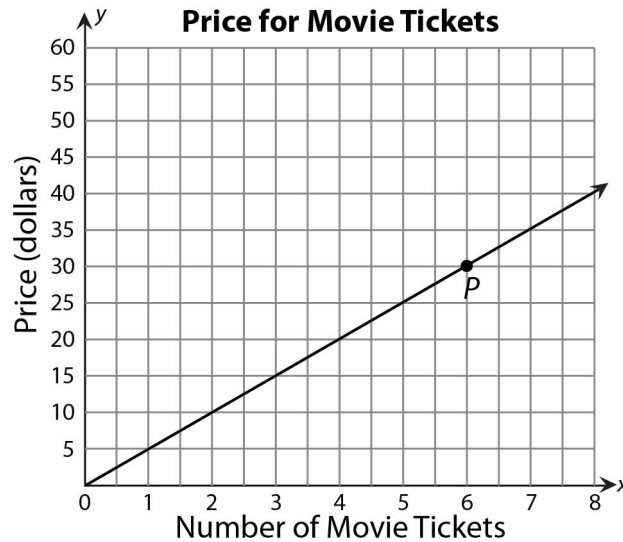
What does point P represent on the graph?

A. The price of 1 ticket is $30.00, which is $30.00 per ticket.

B. The price of 1 ticket is $30.00, which is $5.00 per ticket.

C. The price of 6 tickets is $30.00, which is $5.00 per ticket.

D. The price of 6 tickets is $30.00, which is $6.00 per ticket.

Go On

10 The graph below shows the relationship between the time a car is driven and the distance it travels.

CAR RIDE
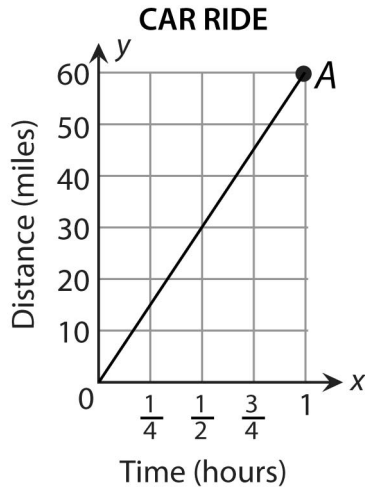
Which statement best explains the meaning of point *A*?

A. At 60 miles, the car reaches its slowest speed.

B. After 1 hour of driving, the car is traveling its fastest speed.

C. The car travels at a constant rate of 1 mile per 60 minutes.

D. The car travels 60 miles in 1 hour.

11 Maria is trying to decide which one of two winter coats she should buy. The blue coat usually costs $48 but is on sale for 25% off. The black coat usually costs $56 but is on sale for 40% off. How much less is the sale price of the black coat than the sale price of the blue coat?
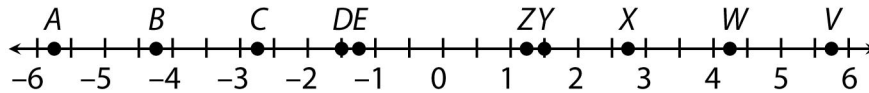
A. $2.40

B. $8.00

C. $10.40

D. $22.40

12 Marisol bought a scooter. The 8% sales tax on the scooter was $10.50. What was the total cost including the sales tax?

A. $11.34

B. $23.63

C. $131.25

D. $141.75

13 At the start of the day, a bag of rice contains $5\frac{3}{4}$ cups of rice. That day, the rice is used for two different recipes, one that uses $1\frac{1}{2}$ cups and then one that uses $2\frac{3}{4}$ cups.

Several values are shown on the number line below.

$$A \qquad B \qquad C \qquad DE \qquad\qquad ZY \quad X \qquad W \qquad V$$

```
  A      B      C     DE          ZY    X      W      V
←─┼●┼─┼─┼●┼─┼─┼●┼─┼─┼●●┼─┼─┼─┼●●┼─┼●┼─┼─┼●┼─┼─┼●┼→
 −6   −5    −4    −3    −2   −1    0    1    2    3    4    5    6
```

Drag and drop the correct letters to make the statements below true.

This question must be answered online.

Go On

14 The elevations of four locations in Southern California are shown on the number line below.

Elevation (feet)

```
800 ┼
700 ┼●  Corona (692 feet)
600 ┼
500 ┼
400 ┼
300 ┼●  Los Angeles (285 feet)
200 ┼
100 ┼
  0 ┼
−100 ┼●  Salton City (−125 feet)
−200 ┼
−300 ┼●  Death Valley (−279 feet)
```
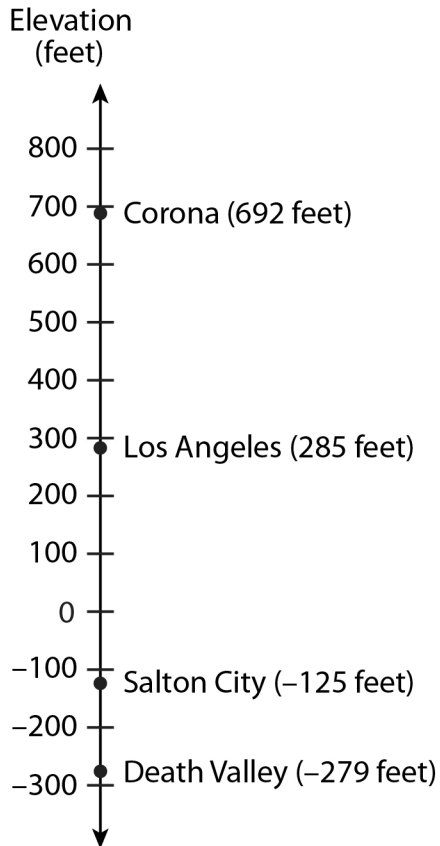
Enter the difference, in feet, between the elevations of Corona and Salton City.

Use the on-screen keyboard to type your answer in the box below.

This question must be answered online.

15 Perform the calculations to simplify the expression shown below. Drag and drop the correct values into the boxes.

This question must be answered online.

Question 16 may have more than one correct answer. Select ALL the answers that are correct.

16 **Which fractions have the same value as $-\frac{3}{5}$? Choose the TWO fractions that are correct.**

A. $-\frac{3}{-5}$

B. $\frac{-3}{5}$

C. $-\frac{-3}{5}$

D. $\frac{-3}{-5}$

E. $-\frac{-3}{-5}$

Read question 17 and select the best answer.

17 **Jessica is shopping at an online store that offers free shipping and doesn't charge her sales tax. Jessica orders two books for $8.99 each, a video game for $19.99, and three board games for $11.99 each. She pays for her purchases with a $100 gift card. What is the remaining balance on her gift card after these purchases?**

A. $6.07

B. $26.06

C. $59.03

D. $73.94

18 A cross-country race is $2\frac{1}{2}$ miles long. Jenna has completed 75% of the race. How many miles has Jenna run so far?

Use the on-screen keyboard to type the correct answer in the box below.

This question must be answered online.

Complete question 19 in the space shown.

19 Howard is designing a poster board that will be enlarged to make a sign.

- **The dimensions of the poster board are 24 inches by 36 inches.**
- **The dimensions of the sign will be 12 feet by 18 feet.**

What is the ratio of the area of the poster board to the area of the sign? Show your work or explain your answer.