

- 1 A scientist measured the maximum wind speeds at the peak of a mountain for several days. The measure of center for the speeds was 28 miles per hour (mph). The measure of spread for the speeds was 12 mph.

Select each box in the table to indicate whether the corresponding statement is true, false, or if there is not enough information to know.

Statement	True	False	Not Enough Information
At least one wind speed is 28 mph.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
At least one wind speed is 12 mph.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If the greatest wind speed is 32 mph, the least wind speed is 20 mph.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The greatest wind speed is 40 mph.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The least wind speed is 12 mph.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- 2 Keith wants to save at least \$70 to buy a skateboard. He has saved \$34 so far. This inequality can be solved for  $x$ , the number of dollars Keith still needs to save.

$$x + 34 \geq 70$$

This Saturday, Keith will earn money doing chores for his neighbors.

Which of the following amounts could Keith earn in order to have enough to buy a skateboard? Select **all** that apply.

- A \$26
- B \$44
- C \$15
- D \$34
- E \$36
- F \$51

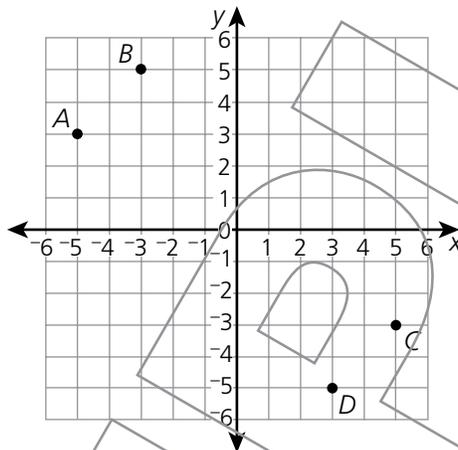
GO ON →

- 15 A hair salon has a bottle of shampoo that contains  $\frac{5}{8}$  of a gallon. Each pump of shampoo is about  $\frac{1}{224}$  of a gallon.

About how many pumps will the people at the hair salon get out of the bottle? Write your answer in the box.

pumps

- 16 This coordinate plane shows the locations of four points.



Which point is located at  $(-3, 5)$  on this coordinate plane? Write your answer in the box.

- 17 A string of decorative lights has 32 bulbs for every 2 feet of wire.

What is the unit rate of bulbs **per yard**? Write your answer in the space provided. Write **only** your fraction.

GO ON →

- 33 A faucet drips water at a constant rate. In 5 minutes, a total of 2 ounces of water drips from the faucet.

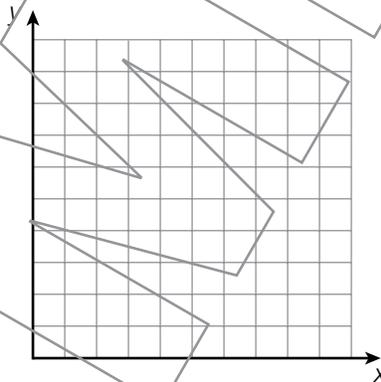
**Part A**

Complete this table relating the number of minutes the water drips,  $x$ , to the number of ounces of water that drips,  $y$ . Write your answers in the boxes.

$x$	$y$
0	<input type="text"/>
10	<input type="text"/>
20	<input type="text"/>

**Part B**

Plot the points represented in the table on this coordinate plane. Be sure to number each axis appropriately.



**Part C**

Write an equation using the variables  $x$  and  $y$  to model this situation. Write your answer in the space provided. Write **only** your equation.

GO ON →