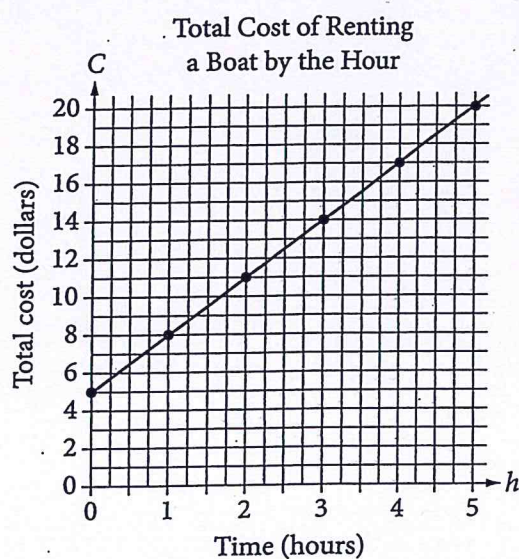




ALG 2 SAT/PSAT practice

Mon, March 23, 2020

Questions 15 and 16 refer to the following information.



The graph above displays the total cost  $C$ , in dollars, of renting a boat for  $h$  hours.

15

What does the  $C$ -intercept represent in the graph?

- A) The initial cost of renting the boat
- B) The total number of boats rented
- C) The total number of hours the boat is rented
- D) The increase in cost to rent the boat for each additional hour

16

Which of the following represents the relationship between  $h$  and  $C$ ?

- A)  $C = 5h$
- B)  $C = \frac{3}{4}h + 5$
- C)  $C = 3h + 5$
- D)  $h = 3C$



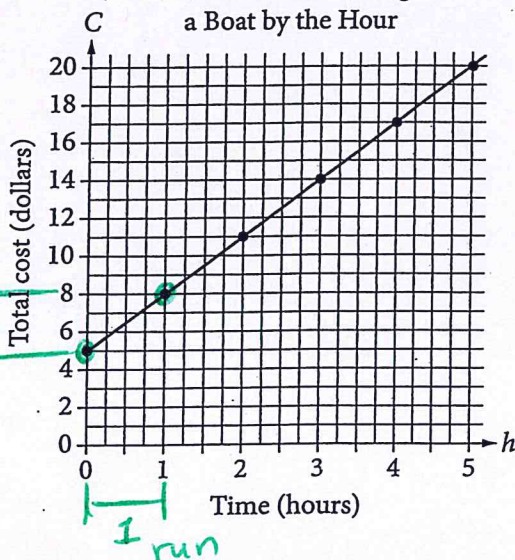


SAT/PSAT practice Mon, March 23, 2020

Answers

Questions 15 and 16 refer to the following information.

Total Cost of Renting  
a Boat by the Hour



The graph above displays the total cost  $C$ , in dollars, of renting a boat for  $h$  hours.

15

What does the  $C$ -intercept represent in the graph?

- ☒ A) The initial cost of renting the boat
- ☐ B) The total number of boats rented
- ☐ C) The total number of hours the boat is rented
- ☐ D) The increase in cost to rent the boat for each additional hour

The  $C$ -intercept ( $y$ -intercept) represents the initial amount  $\rightarrow$  since this axis represents TOTAL COST (\$)   
 **A** is the answer

16

Which of the following represents the relationship between  $h$  and  $C$ ?

- A)  $C = 5h$
- B)  $C = \frac{3}{4}h + 5$
- ☒ C)  $C = 3h + 5$
- D)  $h = 3C$

if you were to write a  $y = mx + b$  equation it would take the form   
  $C = mh + b$

the  $y$ -int ( $C$ -int) = 5   
 therefore choices A & D are NOT correct

picking 2 points on the graph to find slope gives us

$$m = \frac{\text{rise}}{\text{run}} = \frac{3}{1} = 3$$

therefore **C** is the answer