

1. A car moves uniformly at the same speed. The duration of the journey is proportional to the distance traveled.

a. Complete the following table:

Time (hours)	1			5
Distance (kilometers)	37	74	111	

b. What is the constant of proportionality in the table above? _____

2. In the following proportionality table, the second row is obtained by multiplying the top row by the constant of proportionality.

a. Complete the following table:

x	3	4	10	
y		36		99

b. What is the constant of proportionality in the table above? _____

3. The number of cookies (y) consumed by x teachers in a staffroom can be calculated using the equation $y = 8x$.

According to this equation, how many cookies _____
does each teacher consume?

4. Identify the constant of proportionality in the equation $y = 9.5x$. _____

5. Identify the constant of proportionality in the equation $a = 14b$. _____

6. A coffee shop found that the amount of sugar used is proportional to the amount of coffee sold. The table below shows the number of cups of sugar used and the number of cups of coffee sold.

a. Complete the following table:

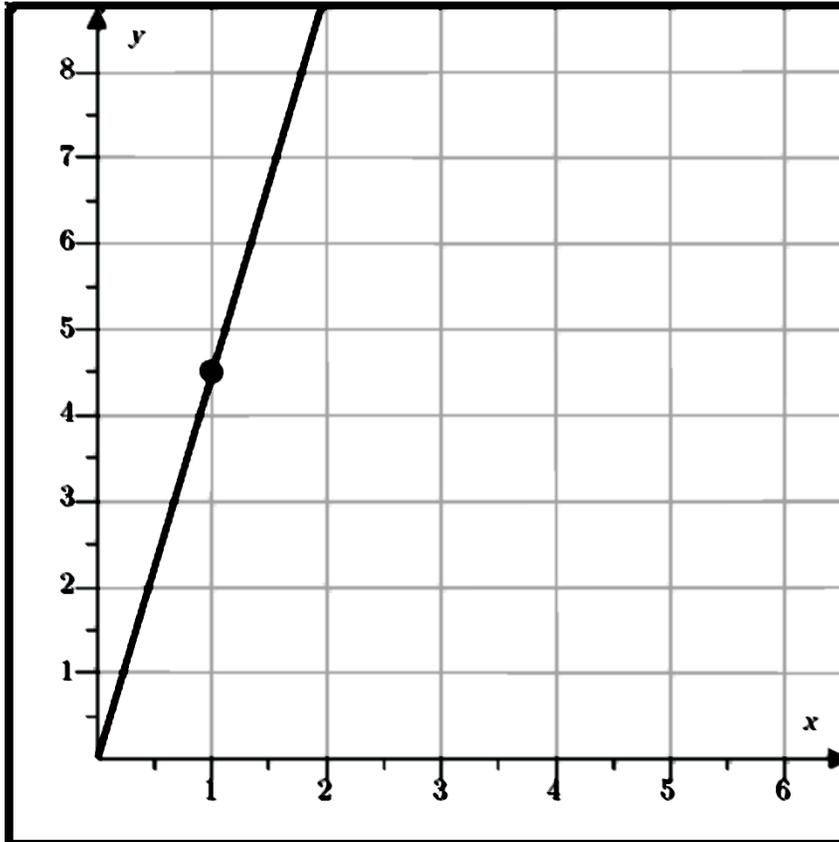
Number of packs of sugar used	7	8	12	
Number of cups of coffee sold		80		130

b. What is the constant of proportionality in the table above? _____

7. Elizabeth realizes that when she listens to her favorite radio station that they play 32 songs in 8 hours, and they play 128 songs in 32 hours. Assume that the radio station plays the same amount of songs every hour. Calculate the constant of proportionality. Please show your calculations below. _____

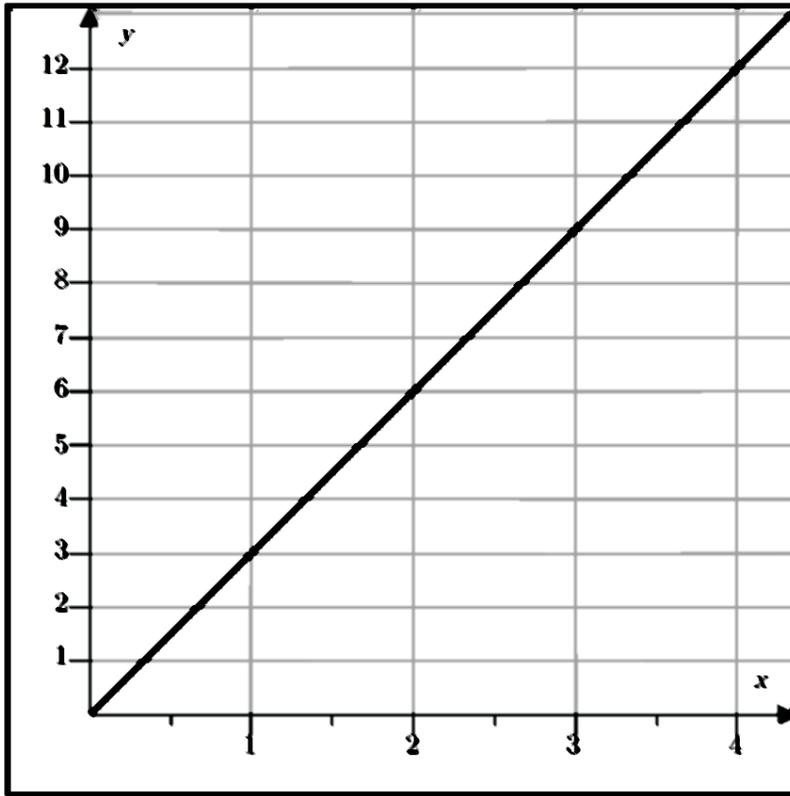
8. Ray is making batches of bread rolls. He knows he can make 64 bread rolls in 8 hours, and 192 bread rolls in 24 hours. What is the constant of proportionality? Please show your calculations below. _____

9. Answer the following questions based on the graph shown below:



- a. What tells you that the graph is directly proportional? _____
- A) The line passes through the origin, is a straight line, and the slope is positive.
- B) The line passes through the origin, is a straight line, and the slope is negative.
- b. Identify the constant of proportionality of the graphed line. _____
- c. Choose the appropriate answer to fill in the blank: _____
- “The constant of proportionality is the same as the _____ of the graph.”
- A) Intercept B) Slope

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- A) Intercept
 - B) Slope