

Direct Variation Exit Quiz

Part A Instructions: Choose the option that completes the sentence or answers the question.

1. A direct variation can be represented by the equation:

- a. $y = kx$
- b. $x = ky$
- c. $k = xy$
- d. None of these

2. Which of the following equations represent a direct variation?

- a. $y = 2x + 1$
- b. $3x - 2y = 0$
- c. $9y - 9 = 9x$
- d. Both b and c

3. The graph of a direct variation is a:

- a. curve
- b. hyperbola
- c. straight line
- d. circle

4. If (x_1, y_1) is a point on the graph of a direct variation relation, the constant k is found as:

- a. $k = \frac{y_1}{x_1}$
- b. $k = \frac{x_1}{y_1}$
- c. $k = x_2 \cdot x_1$
- d. None of these

Part B Instructions: Answer the question below.

5. Assume that y varies directly with x . Write an equation relating x and y . Also find the value of y when x is 9.

$$y = 6 \text{ when } x = 18$$

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5. Assume that y varies directly with x . Write an equation relating x and y . Also find the value of y when is 9.

$$y = 6 \text{ when } x = 18$$

$$k = \frac{y}{x} = \frac{6}{18} = \frac{1}{3}$$

$$y = \frac{1}{3}x$$

$$\text{When } x = 9$$

$$y = \frac{1}{3}(9) = 3$$