

## Rate of Change and Slope Exit Quiz

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

1. The rate of change represents a relationship between:

- a. Constant quantities
- b. Changing quantities
- c. Flexible quantities
- d. None of these

2. In the slope formula, rise represents a change in:

- a. x-dimensions
- b. y-dimensions
- c. z-dimensions
- d. None of these

3. The slope of a vertical line is:

- a. zero
- b. undefined
- c. 1
- d. None of these

4. The slope formula is given as:

- a.  $Slope\ m = \frac{y_2 - y_1}{x_2 - x_1}$
- b.  $Slope\ m = \frac{x_2 - x_1}{y_2 - y_1}$
- c.  $Slope\ m = x_2 - x_1$
- d.  $Slope\ m = y_2 - y_1$

**Part B Instructions:** Answer the question below.

5. Find the slope of the line passing through the points (8,-4) and (-6,-3).

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### ANSWERS:

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5. Find the slope of the line passing through the points (8,-4) and (-6,-3).

$$Slope\ m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$Slope\ m = \frac{-3 - (-4)}{-6 - 8}$$

$$Slope\ m = -\frac{1}{14}$$