Direct Variation and Proportional Change

Name:

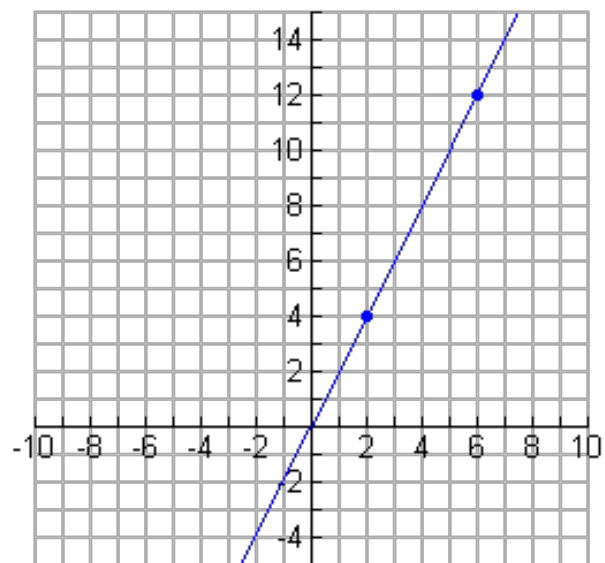**Date:**

Vocabulary Review:
In your own words, define each of the following vocabulary terms.

- Coefficient

- Constant of Variation

- Direct Variation

- Linear Function

- Slope

- Slope-Intercept Form

Apply New Learning:

1. Explain the differences and similarities between slope-intercept form ($y = mx + b$) and direct variation ($y = kx$).

2. Is this a graph of a direct variation equation? Explain your reasoning.

3. What is the *y*-intercept for this graph?

4. What is the constant of variation for this data?

5. Identify the constant from the data shown in the table below and create an equation, $y = kx$, to describe the data.

x	y
3	6
6	12
9	18
12	24

6. Desiree works 40 hours in a week and makes $800. How much will Desiree make if she works 60 hours?