

Name Answer Key

Date _____

Homework #28

Directions: Write an equation that will model the proportional relationship given in each real-world situation.

- 1) In 25 minutes Li can run 10 laps around the track. Determine the number of laps she can run per minute.

a. Find the constant of proportionality in this situation.

$$\frac{10}{25} = 0.4$$

b. Write an equation to represent the relationship.

$$y = 0.4x$$

- 2) Jennifer is shopping with her mother. They pay \$2 per pound for tomatoes at the vegetable stand.

a. Find the constant of proportionality in this situation.

$$\left(\frac{\$}{\text{lb}}\right) \frac{2}{1}$$

b. Write an equation to represent the relationship.

$$y = 2x$$

- 3) It costs \$15 to send 3 packages through a certain shipping company. Consider the number of packages per dollar.

a. Find the constant of proportionality for this situation.

$$\frac{\text{packages}}{\$} \quad \frac{3}{15} = \frac{1}{5} \quad .2$$

b. Write an equation to represent the relationship.

$$y = \frac{1}{5}x$$

$$y = .2x$$