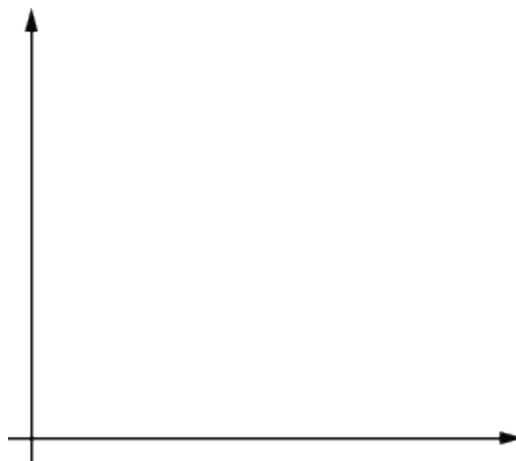# Lesson 9 Practice Problems

1. At the supermarket you can fill your own honey bear container. A customer buys 12 oz of honey for $5.40.

   a. How much does honey cost per ounce?

   b. How much honey can you buy per dollar?

   c. Write two different equations that represent this situation. Use h for ounces of honey and c for cost in dollars.

   ○ Choose one of your equations, and sketch its graph. Be sure to label the axes.

2. The point $(3, \frac{6}{5})$ lies on the graph representing a proportional relationship. Which of the following points also lie on the same graph? Select **all** that apply.

   A. $(1, 0.4)$

   B. $(1.5, \frac{6}{10})$

   C. $(\frac{6}{5}, 3)$

   D. $(4, \frac{11}{5})$

   E. $(15, 6)$

Accelerated 6 Unit 5

Lesson 9

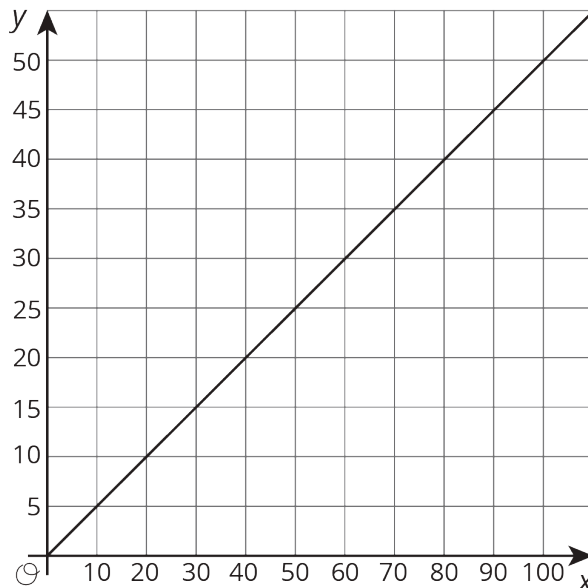CC BY Open Up Resources. Adaptations CC BY IM.

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3. A trail mix recipe asks for 4 cups of raisins for every 6 cups of peanuts. There is proportional relationship between the amount of raisins, r (cups), and the amount of peanuts, p (cups), in this recipe.

   a. Write the equation for the relationship that has constant of proportionality greater than 1. Graph the relationship.

   b. Write the equation for the relationship that has constant of proportionality less than 1. Graph the relationship.

4. Here is a graph that represents a proportional relationship.

   a. Come up with a situation that could be represented by this graph.

   b. Label the axes with the quantities in your situation.

   c. Give the graph a title.

   d. Choose a point on the graph. What do the coordinates represent in your situation?

(From Unit 5, Lesson 7.)