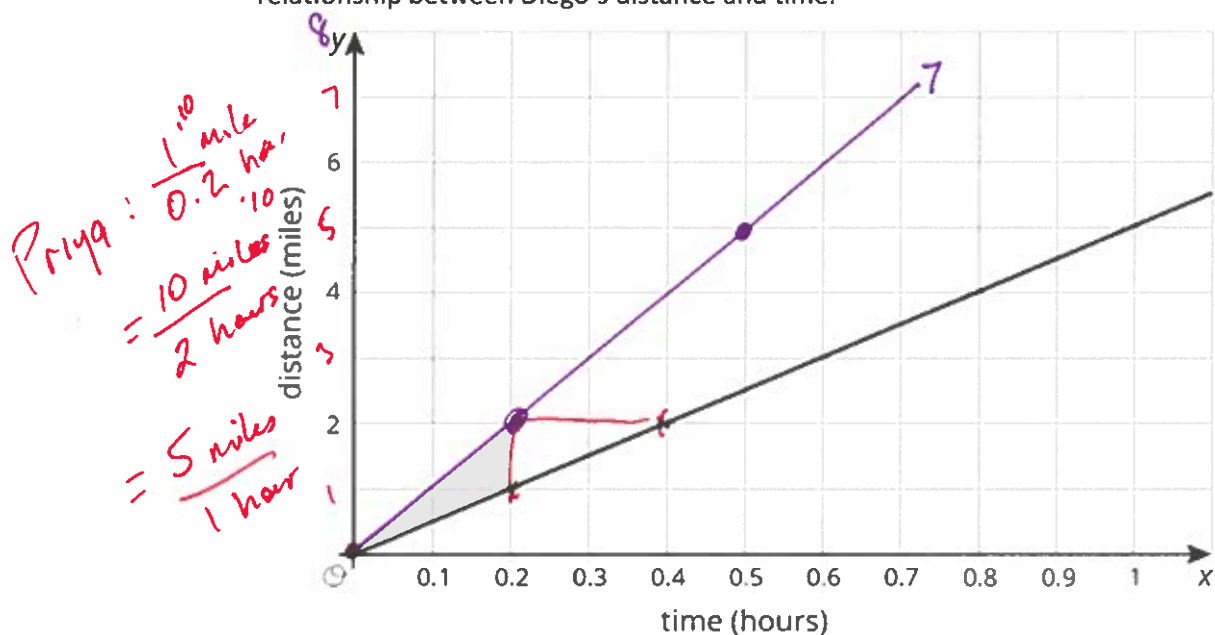


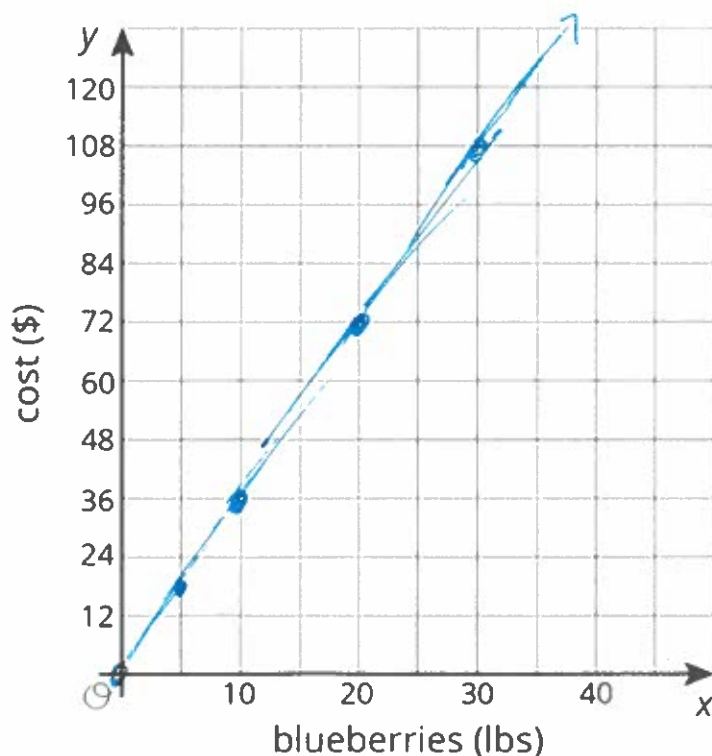
Lesson 3.1 Practice: Understanding Proportional Relationships

1. Priya jogs at a constant speed. The relationship between her distance and time is shown on the graph. Diego bikes at a constant speed twice as fast as Priya. Sketch a graph showing the relationship between Diego's distance and time.



2. A you-pick blueberry farm offers 5 lbs of blueberries for \$18.00.

Sketch a graph of the relationship between cost and pounds of blueberries.

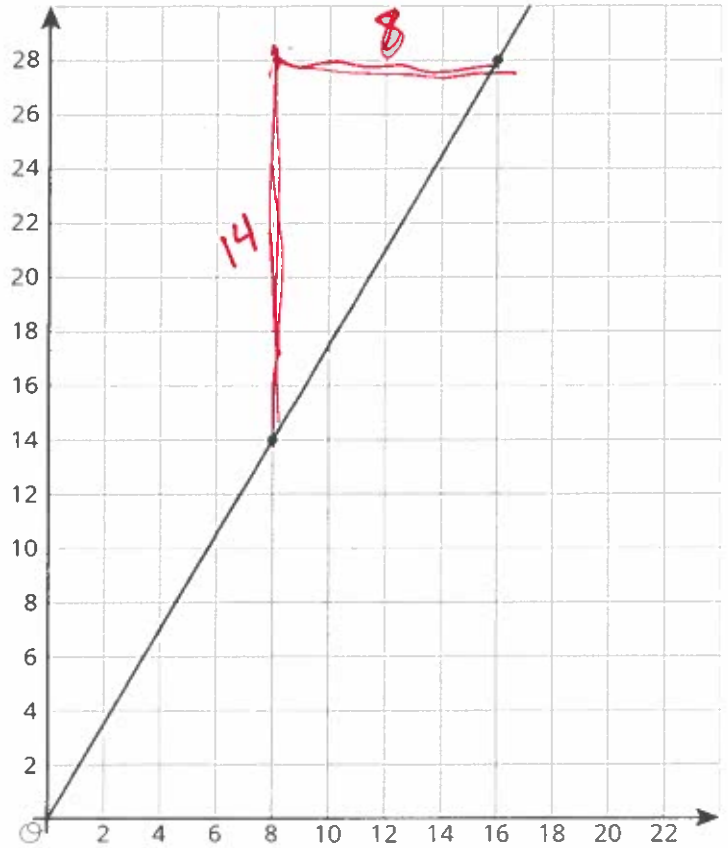


5 lbs → \$18
10 lbs → \$36
20 lbs → \$72
40 lbs → \$144

Lesson 2: Graphs of Proportional Relationships

2.1: An Unknown Situation

Here is a graph that could represent a variety of different situations.



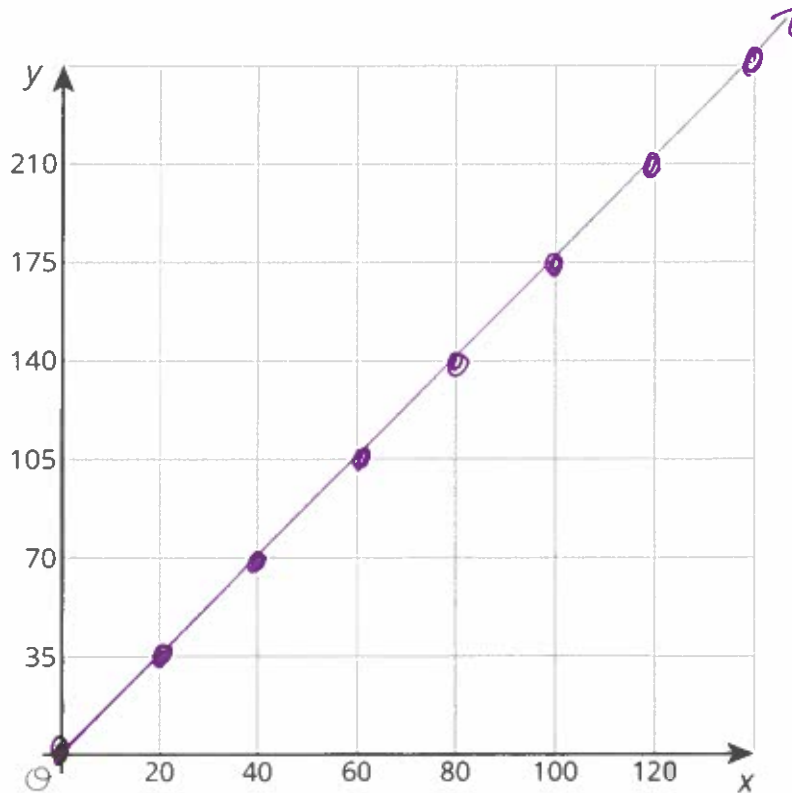
Beuz

1. Write an equation for the graph.

$$M = \frac{14}{8} = \frac{7}{4}$$

$$y = \frac{7}{4}x$$

2. Sketch a new graph of this relationship.



$$y = \frac{7}{4}x$$

Slope: $\frac{7 \cdot 5}{4 \cdot 5}$

$$\frac{35}{20}$$

$$\frac{70}{40} = \frac{7}{4}$$