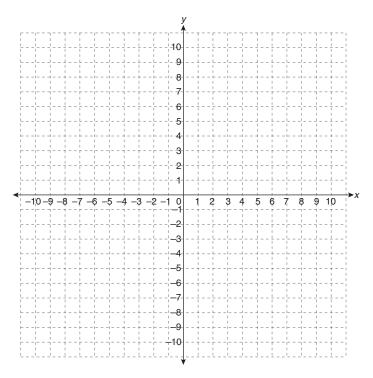


Check Up

1. How many known points are required to draw the graph of a linear relation?

- 2. Consider a linear relation with a slope of -3.75.
 - a. Express the slope as a fraction in lowest terms.

b. Draw the graph of a linear relation that passes through the point (9, -8) and has a slope of -3.75.



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Compare your answers.

- How many known points are required to draw the graph of a linear relation?
 Two points are required to draw a line.
- 2. Consider a linear relation with a slope of -3.75.
 - a. Express the slope as a fraction in lowest terms.

$$-3.75 = -\frac{3.75}{1}$$

$$= -\frac{3.75}{1} \times \frac{100}{100}$$

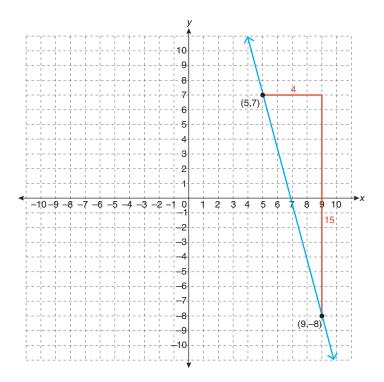
$$= -\frac{375}{100}$$

$$= -\frac{375 \div 25}{100 \div 25}$$

$$= -\frac{15}{4}$$

b. Draw the graph of a linear relation that passes through the point (9, -8) and has a slope of -3.75.

$$m = -3.75 = -\frac{15}{4}$$

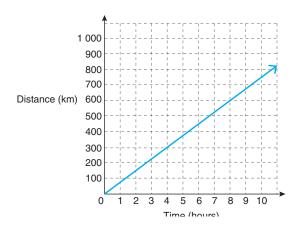


The slope of a line can be used to interpret the corresponding linear relation. The following *Investigation* explores the meaning of slope as more than just the steepness of a line.

Investigation

The following linear relation represents a vehicle's distance travelled over time.

Distance Travelled over Time



1. State two points on the graph of the linear relation. Use those points to determine the slope of the relation.