## Exercise 4

Explain how to determine the slope in a word problem that uses a linear function.

## Solution

To determine the slope, two inputs with corresponding outputs have to be known. They can be represented as points,  $(x_1, y_1)$  and  $(x_2, y_2)$ . The slope is then

$$m = \frac{y_2 - y_1}{x_2 - x_1}.$$