## 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, $\left(x_{1}, y_{1}\right)$ and $\left(x_{2}, y_{2}\right)$. The slope is then

$$
m=\frac{y_{2}-y_{1}}{x_{2}-x_{1}} .
$$

