# Functions and Graphs

*The purpose of these activities is to better understand functions and their graphs.*

Every square has both a perimeter $p$ and an area $A$. In other words, there is a relationship between the set of perimeters of squares and the set of areas of squares. Is this relationship a function?

**Exercise 1** *If $p = 20$, then $A = \boxed{25}$.*

**Hint:** *What is the side length of a square with this perimeter?*

**Exercise 2** *If $A = 36$ then $p = \boxed{24}$.*

**Hint:** *What is the side length?*

**Solution** If the area is 36, then the side length must be 6, since $6 \times 6 = 36$. The perimeter is 4 times the side length, so the perimeter is 24.

This is the end of the activity.

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Learning outcomes: