

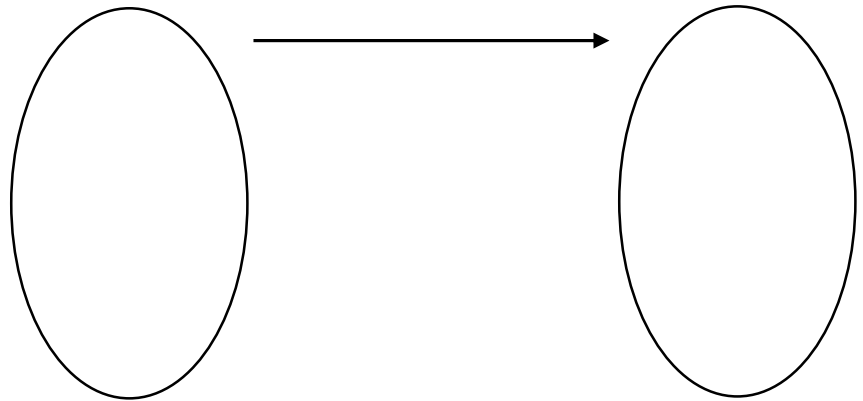
FPC-10

4.2 – Properties of Functions

The table shows the relationship: “_____”.

Represent the relation as an Arrow Diagram.

Number of Players, P	Team, T
9	Baseball
5	Basketball
6	Hockey
11	Soccer
6	Volleyball



Domain:

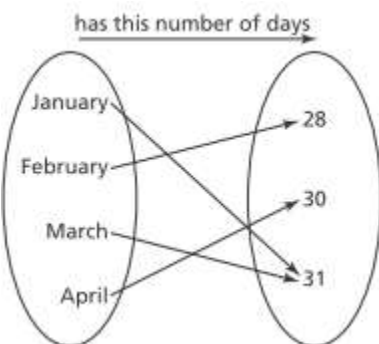
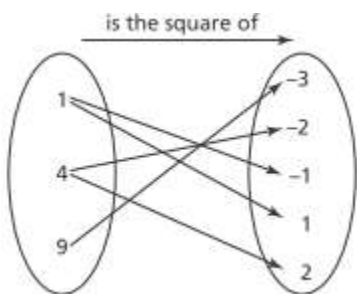
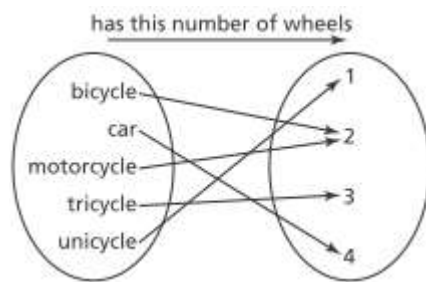
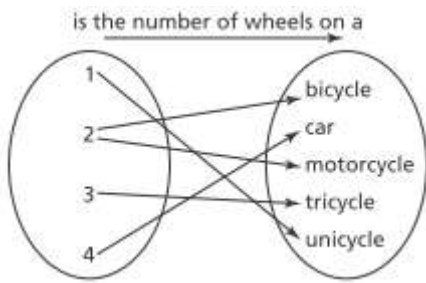
Range:

Independent Variable:

Dependent Variable:

Function:

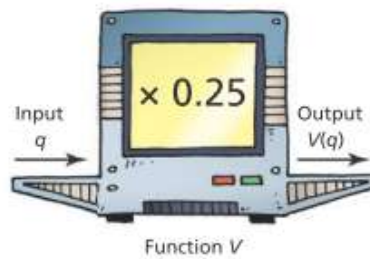
For each of the following relations, determine the DOMAIN and RANGE, and whether the relation is a FUNCTION.



Function Notation

We can think of a FUNCTION as a _____ that has an _____ and an _____.

Consider a *machine* that *takes in* the number of quarters and then *calculates* the value of the quarters:



Name of machine:

Input:

Output:

Math Calculation:

Function Notation:

$V(3)$ means:

$$V(10) =$$

$$V(18) =$$

$$V(7) =$$

$$V(-4) =$$

A function is defined as: $f(x) = -0.8x^2 + 2$. Calculate the values of the following:

$$f(3) =$$

$$f(0.5) =$$

$$f(10) =$$

$$f(-2.5) =$$