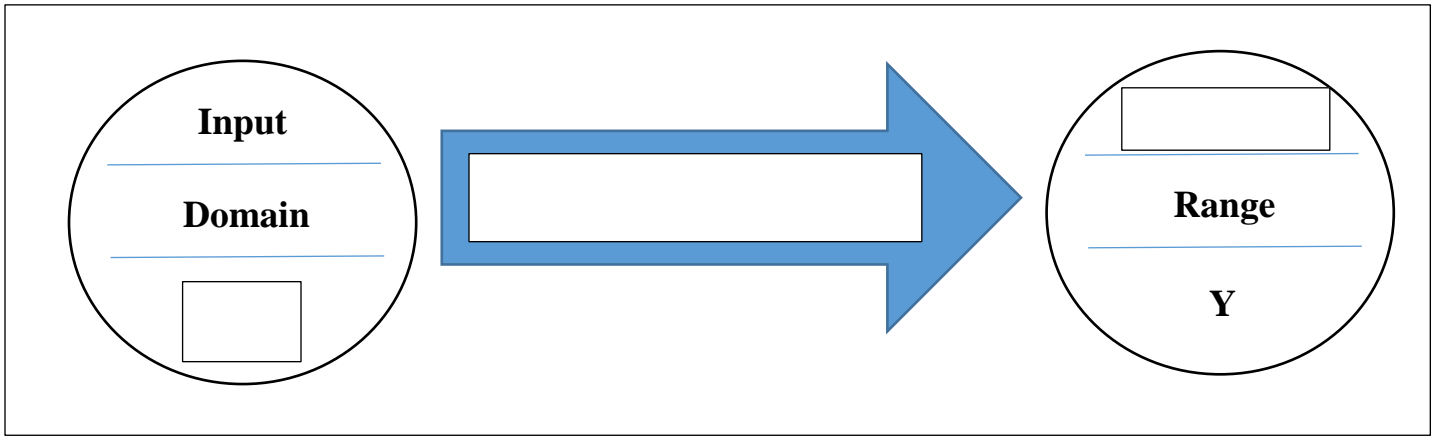


7th Grade Pre-Algebra Relation and Function Notes



Function Table

$$y=2x$$

Input/Domain	Output/Range
X	Y
1	$y=2(1) = 2$
2	
3	

True or False: A function can have only one output?

*For something to be called a function it can only produce ONE output value to an input set.

Input	Output
x	y
-3	-2
-2	-1
-1	0
1	2

Ordered Pair

(x, y)

(__ , __)
 (__ , __)
 (__ , __)
 (__ , __)

Domain: { __ , __ , __ , __ }

Range: { __ , __ , __ , __ }

Vertical Line Test: If the vertical line **ONLY** intersects the graph at _____ point for every possible value of x in the domain, then that means there is only one output value for each input value, which makes the graph a _____.

Function Notation

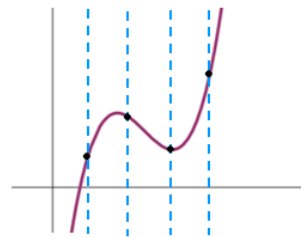
$$f(x)=y$$

“The function of x equals y.”

Function(input) = output

Vertical Line Test

A graph represents a function if there are no vertical lines that intersect the graph at more than one point.



Is a Function

No vertical line will cross the graph more than once.



NOT a Function

There is a vertical line that crosses the graph more than once.