

## Intro to Functions

Today's Learning Targets:

6.1 I can determine if ordered pairs are a function by using tables or mapping diagrams.

### What is a Function?

An equation in which \_\_\_\_\_  
\_\_\_\_\_ .

Equation

$$y = 2x$$

Table

$x$	$y$
-2	
-1	
0	
1	
2	

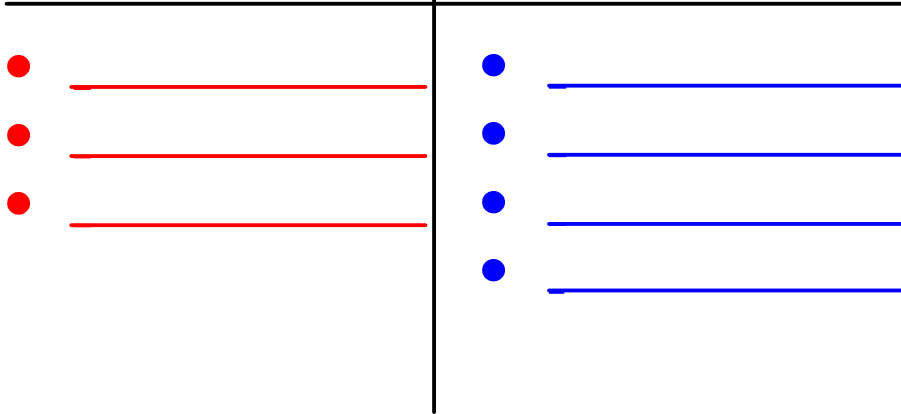
# ONE Rule for functions!

Function - Every \_\_\_\_\_ has one \_\_\_\_\_.

$(x, y)$

X - Value

Y - Value

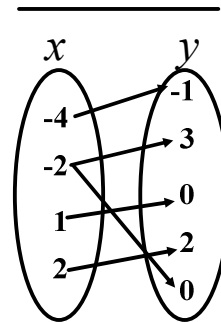
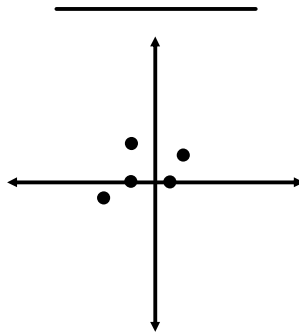


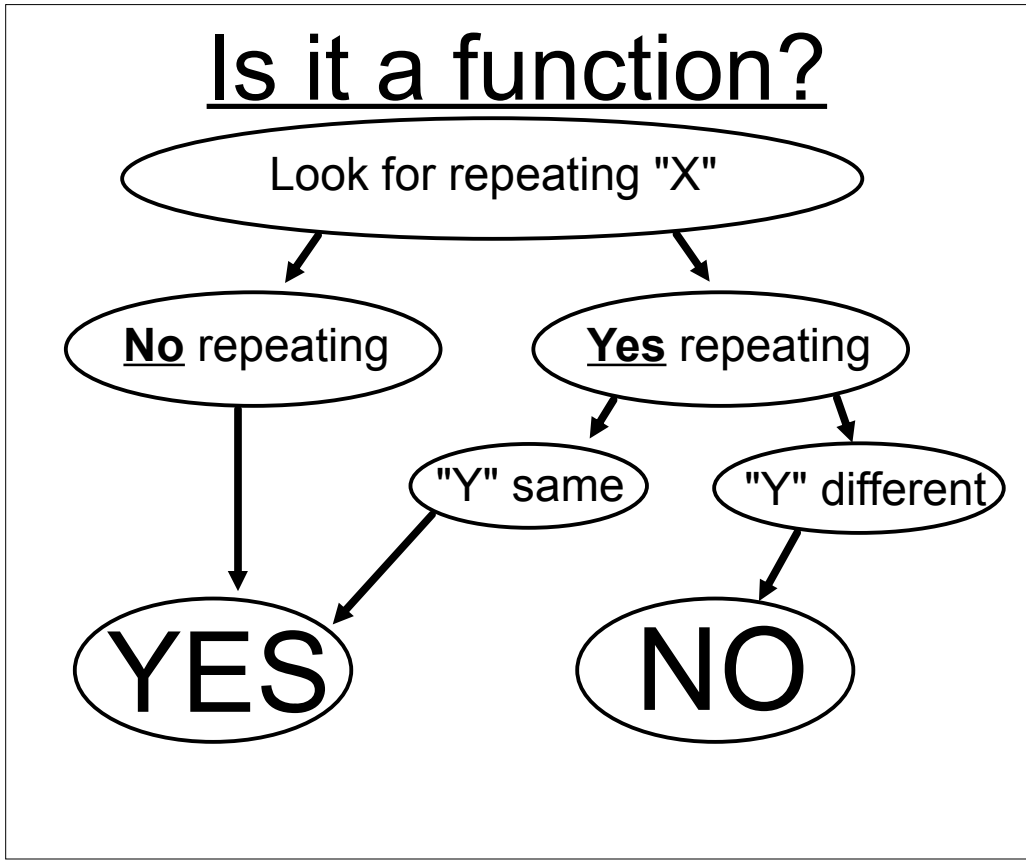
A RELATION is a set of ordered pairs.

The set of ordered pairs in a relation can be shown...

\_\_\_\_\_  $\{(-4,-1),(-2,3),(1,0),(2,2),(-2,0)\}$

$x$	$y$
-4	
-2	
1	
2	
-2	





Find which of the following relations is a function.

-- Use the "cross out" to show why it is NOT a function. X

$\{(-1, 7), (2, 5), (7, 5), (1, 4)\}$

Function

Non Function

hours	widgets
-4	-1
-2	13
56	17
10	9
-2	0

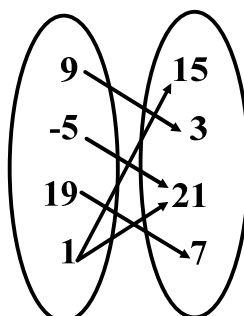
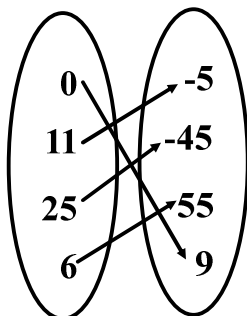
Function

Non Function



Find which of the following relations is a function.  
 Use the "cross out" to show why it is NOT a function.

**X**



$\{(0, 0), (1, 1), (4, 2), (1, -1)\}$

Function

Non Function