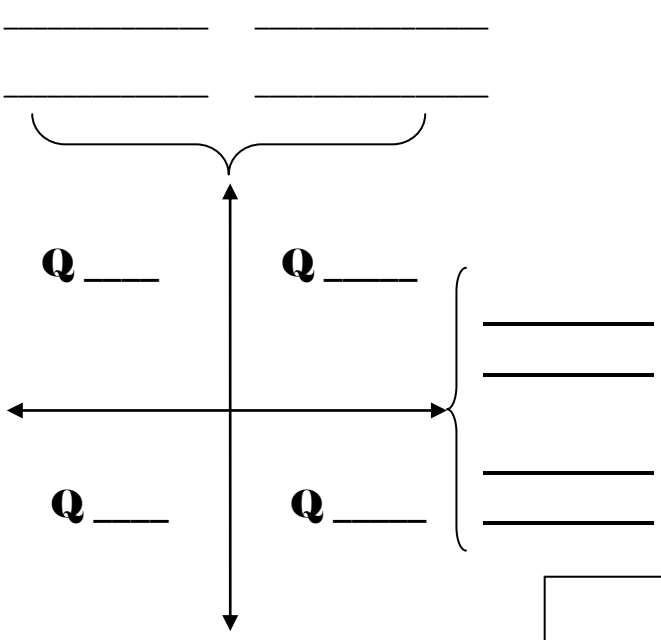
Name: _____

RC#1

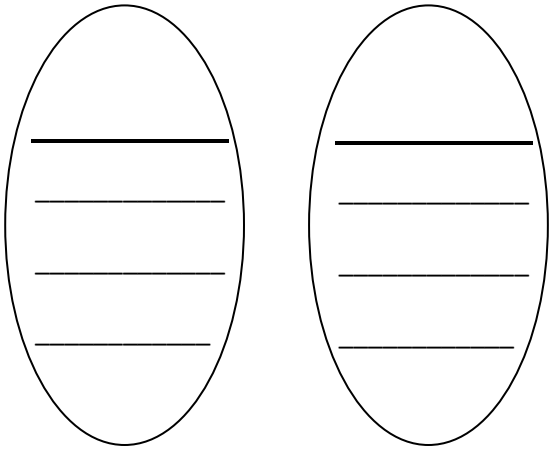
FUNCTIONAL RELATIONSHIPS

Functions can be represented in a variety of ways:

Coordinate Plane



Mapping



Table

D	R
X	Y
I	D
I	O

Ordered Pair

(_____, _____)

(_____, _____)

(_____, _____)

(_____, _____)

Function Notation

f (_____) = _____

f (_____) = _____

f (_____) = _____

f (_____) = _____

Important Things to Remember:

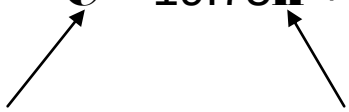
- **DR**. **XY** needs to wear his **ID** while **I**n the **O**ffice.
- For a relation to be a function, the “x” values cannot repeat.

RC#1

Equations: Remember inside/outside

In the equation C = 19.75n + 5.80, "n" represents the number of DVDs ordered and "C" represents the total cost. Label the independent and dependent variable, and describe the relationship in a complete sentence.

$$C = 19.75n + 5.80$$



_____ _____

Using Stat to generate equations

1) What equation could be used to generate this table of values?

x	y
-2	1
-1	3
0	5
1	7

2) What linear function includes the points (-3, 1) and (-2, 4)?

Words to Equations

1) Four less than the product of 3 and a number is equal to the number decreased by 14.

2) Two times the sum of a number and 4 is equal to -3 times the sum of the number and four.

3) Fifteen more than 5 times a number is the same as twice the number plus 6

Graphing Inequalities

What would the graph look like for…

y ≤ : _____

_____**line, shade** _____

y ≥ : _____

_____**line, shade** _____

y < : _____

_____**line, shade** _____

y > : _____

_____**line, shade** _____