FORMATIVE ACTIVITY

Understanding Relations and Functions

I. DRAG AND DROP.

DOMAIN	INPUT	RANGE	RELATION	OUTPUT

1. _____ is a set of order pairs *(x, y)*.
2. X are all the _____ values, and Y are the _____ Value.
3. _____ are all the inputs of a relation.
4. _____ are all the output of a relation.
5. What would be true about a relation that is not a function?

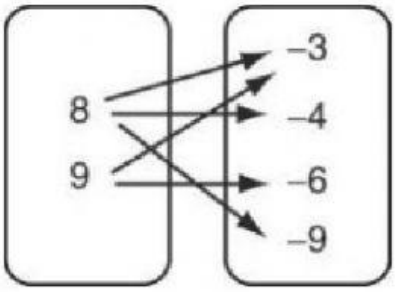
   _____

   _____.
6. Which representation (mapping diagram, table, or graph) do you think makes it easiest to determine if a relation is a function? Why?

   _____

   _____.

II. GIVE THE DOMAIN AND RANGE OF EACH RELATION. TELL WHETHER A RELATION IS A FUNCTION, EXPLAIN.

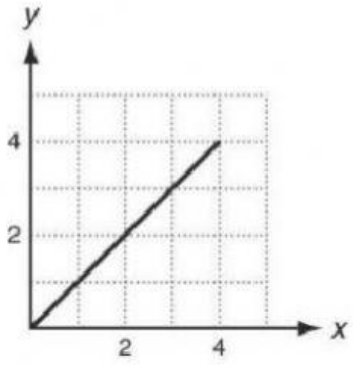


D: _____

R: _____

Function? _____

Why? _____.



D: _____

R: _____

Function? _____

Why? _____.

x	y
1	4
2	5
0	6
1	7
2	8

D: _____

R: _____

Function? _____

Why? _____.

{(1, 2), (2, 2), (3, 3), (4, 3)}

D: _____

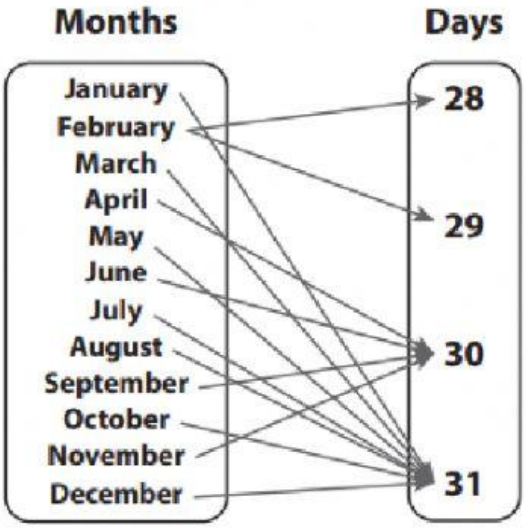
R: _____

Function: _____

Why? _____.

III. PROBLEM SOLVING

Examine the mapping diagram. The first set is the months of the year, and the second set is the possible number of days per month. Is the relation a function? Explain.



D: _____

R: _____

Function? _____

Why? _____.

IV. Use the vertical Line test to determine if each relation is a function.