Name	Pd Date	Section 1.E.1				
Quantitative Relationships						
Vocabulary	Definition	Example				
Relation	A set of ordered pairs; can be represented in tables, graphs, or mapping diagrams	$\{(-3,-2), (-1,1), (7,3), (9,5)\}$				
Domain	The set of all <i>x</i> -values for the relation					
Range	The set of all <i>y</i> -values for the relation					

## Functions are Relations that Follow Rules

Some relations follow specific rules. Given an input, you can reliably predict the output based on the rule.



Strategy for Classifying Different Representations without Mapping Diagrams

Representation	Strategy
Graph	Vertical Line Test:
Table	
Ordered Pairs	
Domain & Range	

For each relation card, make (or try to make) a mapping diagram. Glue the card in the correct column.

Relation	Function	Not a Function
Graph		
Table		
Ordered		
Pairs		
Derest		
Domain & Rango		
& Nalige		

## **Function Notation:**

The expression	is read as		or	
It refers to the	when	is the	•	

<u>Ex.</u> Evaluate the function f(x) = -3x + 5 when x = -2 and x = 7.