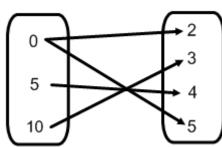
Name:					D	ate:	
Notes	ation 1 C						
Algebra Se Pages	ection 1.6						
							III
	vill be able to wri						
1 V	viii identily the c	iomam	and range	or a fuffeti	OII		
Vocabula	ry:						
Function:							
D							
Domain:							
Range:							
Denender	nt Variable:						
Береписі							
Independ	ent Variable: _						
Example:							
=	=				s of regula	r unleaded ga	as from the same pump.
Identify the	e domain and rar	ige of th	ie function				
	Input (gallon	s)	10	12	13	17	
	Output (dolla	ars)	19.99	23.99	25.99	33.98	
Doi	main (Input): <u>10,1</u>	12 13 17	7	Rang	e (Outnut):	19 99 23 90	9, 25.99, 33.98
201	11011 (111pat). <u>10,1</u>	12,13,17	-	Harib	e (Output).	13.33, 23.33	<u>5, 23.33, 33.30</u>
Try These			و مرود بالمار مرواند	C			
a) identify	the domain and r	ange or	tne given	runction:			
	Input	1	3	4	8		
	Output	5	11	14	26		
Do	main			Pang	0:		
DOI	main:			Nang	e		
b) Identify	the domain and r	range of	the given	function:			
	Input	0	1	2	4		
	Output	5	2	2	1		
	'		1				
				_			
Domain:				Rang	e:		
**Why is i	t a function even	though	n 2 appear	s twice in t	the output?) 	
		-					

Decide if the following relationships represent a function. Explain why or why not. If yes, identify the domain and range.

a)





b)

Input	Output
0	0
1	2
4	8
6	12

c)

Input	3	6	9	12
Output	1	2	2	1

d)

Input	2	2	4	7
Output	0	1	2	3

Ways to Represent Functions

Example:

Verbal Rule Equation Table

The output is 3 more than the input.

y = 3 + x

Input (x)	0	1	2	3
Output (y)	3	4	5	6

Plug in the values

Try These:

a) The domain of the function y = 2x is 0, 2, 5, 7, 8. Make a table for the function. Then identify the range.

Input			
Output			

Range:_____

b) Make a table for the function y = x - 5 with a domain of 10, 12, 15, 18, 29. Then identify the range.

Input			
Output			

Range:_____

Writing a	Rule for	a Fu	ncti	on:							
Basic Premi					do you	ı get y?					
a)							b)				
Input	0	1	4	6	10			Input	1	2	4
Output	2	3	6	8	12			Output	0	1	3
Rule:								Rule			
c)											
Input	1	3	5	7	9]					
Output	1	5	9	13	17]					
Rule:											
Write a rule	e for the	follo	wing	func	tions.						
a)							b)				

9

26 15

10

Input	0	3	6	9	12	Input
Output	5	14	23	32	41	Output

c) You are buying concert tickets that cost \$15 each. You can buy up to six tickets.

- a) Write a rule for the amount you spend (in dollars) (A) as a function of the number of tickets you buy (t).
- b) Make a table to identify the range.

Number of				
Tickets n				
Amount				
(dollars) A				

- c) Identify the independent and dependent variables.
- d) Identify the domain and range.

- d) At a community center, art lessons are offered at night. The fee is \$12 per lesson. You plan to attend up to 5 lessons.
 - a) Write a rule for the amount you spend (in dollars) as a function of the number of lessons you attend.
 - b) Identify the independent and dependent variables.
 - c) Identify the domain and range.