

Name : \_\_\_\_\_



Date: \_\_\_\_\_

Section 1.6 Homework

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Part A

Domain= Input Values

Range= Output Values

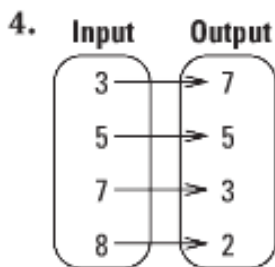
**DOMAIN AND RANGE** Identify the domain and range of the function.

3.

Input	Output
0	5
1	7
2	15
3	44

Domain: \_\_\_\_\_

Range: \_\_\_\_\_



Domain: \_\_\_\_\_

Range: \_\_\_\_\_

5.

Input	Output
6	5
12	7
21	10
42	17

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

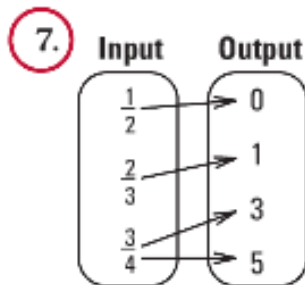
Function=Each Input value has only one Output value.

**IDENTIFYING FUNCTIONS** Tell whether the pairing is a function.

6.

Input	Output
0	7.5
1	9.5
2	11.5
3	13.5

Function?



Function?

8.

Input	Output
7	13
11	8
21	13
35	20

Function?

Set B

Make a table for the function. Identify the range of the function.

14)  $y = x - 3$                       Domain: 12, 15, 22, 30

a) Make a table. Hint: Input each domain into the function and find the output.

Input	12	15	22	30
Output				

$y = x - 3$  for  $x=12$

$y = x - 3$  for  $x=15$

$y = x - 3$  for  $x=22$

$y = x - 3$  for  $x=30$

b) Identify the range of the function.

Range: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

15)  $y = x + 3.5$                       Domain: 4, 5, 7, 8, 12

a) Make a table. Hint: Input each domain into the function and find the output.

Input	4	5	7	8	12
Output					

$y = x + 3.5$  for  $x=4$

$y = x + 3.5$  for  $x=5$

$y = x + 3.5$  for  $x=7$

$y = x + 3.5$  for  $x=8$

$y = x + 3.5$  for  $x=12$

b) Identify the range of the function.

Range: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

16)  $y = 3x + 4$  Domain: 0, 5, 7, 10

a) Make a table. Hint: Input each domain into the function and find the output.

Input	0	5	7	10
Output				

$y = 3x + 4$  for  $x=0$

$y = 3x + 4$  for  $x=5$

$y = 3x + 4$  for  $x=7$

$y = 3x + 4$  for  $x=10$

b) Identify the range of the function.

Range: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

WP

23) You have 10 quarters that you can use for a parking meter.

a) Each time you put 1 quarter in the meter, you have 1 less quarter, so

\_\_\_\_\_ is a function of \_\_\_\_\_.

b) Write a rule for the number  $y$  of quarter that you have left as a function of the number  $x$  of quarters you have used so far. Identify the domain of the function.

How many quarters are you starting with? \_\_\_\_\_

Are you taking quarters away or adding them? \_\_\_\_\_

Rule:  $y=$ \_\_\_\_\_

Domain (What can  $x$  be? How many quarters can you take away): \_\_\_\_\_

c) Make a table and identify the range.

Input	0	1	2	3	4	5	6	7	8	9	10
Output											

Range: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

24) At a yard sale, you find 5 paperback books by your favorite author. Each book is \$.75.

a) For each book you buy, you spend \$.75, so \_\_\_\_\_ is a function of \_\_\_\_\_.

b) Write a rule for the amount (in dollars) you spend as a function of the number of books you buy. Identify the domain of the function.

Rule (How can I find the total amount spent?):  $y =$

Domain (What can  $x$  be? How many books can I buy?):

c) Make a table and identify the range of the function.

Input	0	1	2	3	4	5
Output						

Range: