Name _____ Date _____

LESSON 1.7

Practice A

For use with the lesson "Represent Functions as Rules and Tables"

Complete the sentence.

1. The collection of all output values is called the __?__ of a function.
2. The collection of all input values is called the __?__ of a function.

Identify the domain and range of the function.

3.

Input	Output
1	8
3	7
5	6
7	5

4.

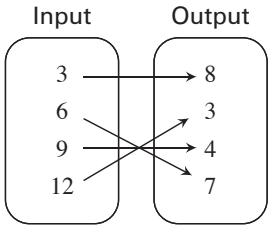
Input	Output
7	4
2	2
5	1
3	5

5.

Input	Output
0.4	15
0.5	13
0.6	11
0.7	9

Tell whether the pairing is a function.

6.



7.

Input	Output
6	3
3	1
0	2
3	4

8.

Input	Output
10	9
11	3
12	6
13	9

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

9. $y = 4x$

   Domain: 0, 1, 2, 3

10. $y = x + 2$

    Domain: 11, 15, 22, 27

11. $y = x - 3$

    Domain: 5, 9, 14, 19

12. **Flower Garden** You have a flat of 12 plants that you are planting in a garden.

    a. Copy and complete: Each time you put one plant in the garden, you have one less plant in the flat, so __?__ is a function of __?__.

    b. Write a rule for the number of plants y you have left in the flat as a function of the number of plants x you have put in the garden so far.

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

13. **Centerpieces** A florist is making centerpieces for a charity event. She is using 9 flowers in each centerpiece. Write a rule for the total number of flowers used as a function of the number of centerpieces created.

14. **Kickboxing** You join a kickboxing class at a local gym. The cost is $5 per class plus $25 for the initial membership fee. Write a rule for the total cost of the class in dollars as a function of the number of classes you attend. How much will it cost if you go to 8 classes?