Name _____ Date _____

LESSON 1.6

Practice C

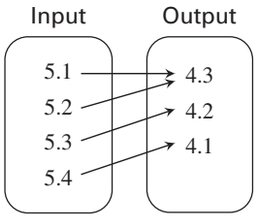
For use with pages 35–41

Tell whether the pairing is a function.

1.

Input	Output
0.2	1.5
0.4	1.25
0.6	1.5
0.8	1.25

2.



3.

Input	Output
25	14
30	13
30	12
35	11

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

4. $y = \frac{1}{3}x - 4$

Domain: 12, 15, 18, 21

5. $y = \frac{1}{4}x + \frac{3}{4}$

Domain: 1, 3, 5, 7

6. $y = \frac{0.1x + 2}{3}$

Domain: 10, 20, 30, 40

Write a rule for the function.

7.

Input, *x*	0	1	2	3
Output, *y*	3	5	7	9

8.

Input, *x*	16	14	12	10
Output, *y*	7	6	5	4

9. **Shoe Sizes** The table shows men's shoe sizes in the United States and Europe. Write a rule for the European size as a function of the United States' size. Then use your function to predict the European size of a U.S. size 11 shoe.

U.S. size	3.5	4	4.5	5	5.5	6
European size	35	35.5	36	36.5	37	37.5

10. **Birthday Party** You are making treat bags for a birthday party. You have made 3 bags so far, placing 6 novelty items (stickers, balloons, whistles, etc.) in each bag. You will continue to make the bags using 6 items in each bag. Write a rule for the total number of items used as a function of the number of bags created in addition to the first three. How many novelty items will you use if you make 9 more bags?

11. **Sandwich Rings** A delicatessen worker has created 8 large sandwich rings in the first 2 hours of her shift. She plans on making sandwich rings at the same rate for the rest of her shift. Write a rule for the total number of sandwich rings made as a function of the number of hours left in the deli worker's shift. How many sandwich rings will the deli worker make if she has 6 hours left in her shift?