

# Practice 5-4

## Writing a Function Rule

Write a function rule for each table.

1.

$x$	$f(x)$
0	3
2	5
4	7
6	9

2.

$x$	$f(x)$
0	0
1	3
3	9
5	15

3.

$x$	$f(x)$
5	0
10	5
15	10
20	15

4. a. Write a function rule to calculate the cost of buying bananas at \$.39 a pound.

- b. How much would it cost to buy 3.5 pounds of bananas?

5. To rent a cabin, a resort charges \$50 plus \$10 per person.

- a. Write a function rule to calculate the total cost of renting the cabin.

- b. Use your rule to find the total cost for six people to stay in the cabin.

Write a function rule for each table.

6.

$x$	$f(x)$
-4	-2
-2	-1
6	3
8	4

7.

$x$	$f(x)$
-3	9
0	0
1	1
5	25

8.

$x$	$f(x)$
0	20
2	18
4	16
8	12

9. Pens are shipped to the office supply store in boxes of 12 each.

- a. Write a function rule to calculate the total number of pens when you know the number of boxes.

- b. Calculate the total number of pens in 16 boxes.

10. a. Write a function rule to determine the change you would get from a \$20 bill when purchasing items that cost \$1.25 each.

- b. Calculate the change when five of these items are purchased.

- c. Can you purchase 17 of these items with a \$20 bill?

11. You invest \$209 to buy shirts and then sell them for \$9.50 each.

- a. Write a function rule to determine your profit.

- b. Use your rule to find your profit after selling 24 shirts.

- c. How many shirts do you need to sell to get back your investment?