

Practice 5-4

Writing a Function Rule

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 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?