

Lesson 3 Reteach

Functions

A **function** is a relation in which each member of the domain (input value) is paired with exactly one member of the range (output value). You can organize the input, rule, and output of a function using a function table.

Example 1

Choose four values for x to make a function table for $f(x) = 2x + 4$. Then state the domain and range of the function.

Substitute each domain value x , into the function rule. Then simplify to find the range value.

$$f(x) = 2x + 4$$

$$f(-1) = 2(-1) + 4 \text{ or } 2$$

$$f(0) = 2(0) + 4 \text{ or } 4$$

$$f(1) = 2(1) + 4 \text{ or } 6$$

$$f(2) = 2(2) + 4 \text{ or } 8$$

The domain is $\{-1, 0, 1, 2\}$. The range is $\{2, 4, 6, 8\}$.

Input, x	Rule, $2x + 4$	Output, $f(x)$
-1	$2(-1) + 4$	2
0	$2(0) + 4$	4
1	$2(1) + 4$	6
2	$2(2) + 4$	8

Exercises

Find each function value.

1. $f(1)$ if $f(x) = x + 3$ **4**

2. $f(6)$ if $f(x) = 2x$ **12**

3. $f(4)$ if $f(x) = 5x - 4$ **16**

4. $f(9)$ if $f(x) = -3x + 10$
-17

5. $f(-2)$ if $f(x) = 4x - 1$
-9

6. $f(-5)$ if $f(x) = -2x + 8$
18

Choose four values for x to make a function table for each function. Then state the domain and range of the function.

7. $f(x) = x - 10$

Sample answer:

x	$x - 10$	$f(x)$
-1	$(-1) - 10$	-11
0	$0 - 10$	-10
1	$1 - 10$	-9
2	$2 - 10$	-8

Domain: $\{-1, 0, 1, 2\}$

Range: $\{-11, -10, -9, -8\}$

8. $f(x) = 2x + 6$

Sample answer:

x	$2x + 6$	$f(x)$
-3	$2(-3) + 6$	0
-1	$2(-1) + 6$	4
2	$2(2) + 6$	10
4	$2(4) + 6$	14

Domain: $\{-3, -1, 2, 4\}$

Range: $\{0, 4, 10, 14\}$

9. $f(x) = 2 - 3x$

Sample answer:

x	$2 - 3x$	$f(x)$
-2	$2 - 3(-2)$	8
0	$2 - 3(0)$	2
3	$2 - 3(3)$	-7
4	$2 - 3(4)$	-10

Domain: $\{-2, 0, 3, 4\}$

Range: $\{8, 2, -7, -10\}$

Practice C Lesson 12 3 Reteach Arithmetic

Xiaolong Qi



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