

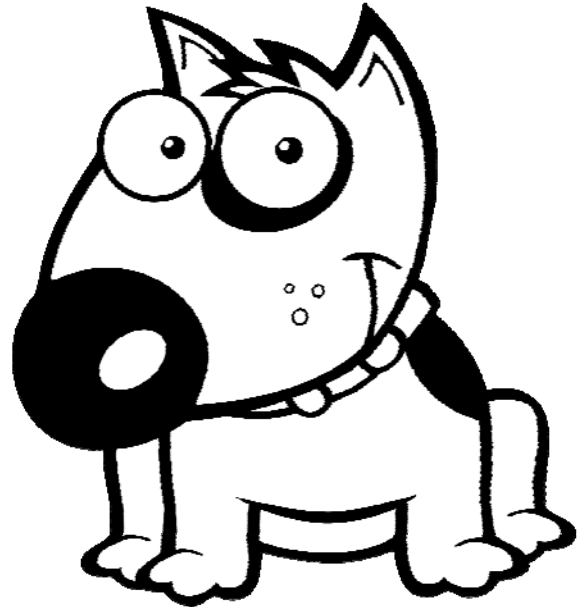
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Functions as Inputs and Outputs - Step-by-Step Lesson**Lesson 1 Functions Problem:**

1. Complete the table.

$f(x) = 4x$	
x	$f(x)$
-4	-
-1	-
1	-
4	-

**Explanation:****The first x value in the table is -4.**a) Evaluate $f(x) = 4x$ for $x = -4$

$$f(x) = 4x$$

$$f(x) = 4(-4) \quad (x = -4 \text{ in the table})$$

$$f(x) = -16$$

When $x = -4$, So $f(x) = -16$

Complete the first row of the table.



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The second x value in the table is -1.

b) Evaluate $f(x) = 4x$ for $x = -1$

$$f(x) = 4x$$

$$f(x) = 4(-1) \quad (x = -1 \text{ in the table})$$

$$f(x) = -4$$

When $x = -1$, So $f(x) = -4$

Complete the second row of the table.

The third x value in the table is 1.

c) Evaluate $f(x) = 4x$ for $x = 1$

$$f(x) = 4x$$

$$f(x) = 4(1) \quad (x = 1 \text{ in the table})$$

$$f(x) = 4$$

When $x = 1$, So $f(x) = 4$

Complete the third row of the table.

The fourth x value in the table is 4.

Evaluate $f(x) = 4x$ for $x = 4$

$$f(x) = 4x$$

$$f(x) = 4(4) \quad (x = 4 \text{ in the table})$$

$$f(x) = 16$$

When $x = 4$, So $f(x) = 16$

Complete the fourth row of the table.



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Step 3) So the answer is:

$f(x) = 4x$	
x	$f(x)$
-4	-16
-1	-4
1	4
4	16

