

Function Notation Notes

4/9/15

the name of the function, f

Tells what value to plug into the function (so you can solve)

$$f(x) = 3x + 4$$

2

in

Rule	$3x + 4$
$3(2) + 4$	$6 + 4$

out

10

$$f(2) = 10$$

Final Answer

Rule

Function Notation is the shorthand way to solve. So you don't have to use a table.

name value Rule

$$f(x) = 3x + 4$$

Proper notation

$$\boxed{f(-1) = 1}$$

$$3(-1) + 4$$

$$-3 + 4$$

$$1$$

Substitute the value into the function Rule and simplify

name of function: g

Rule

$$g(x) = -2x + 1$$

$$\boxed{g(5) = -9}$$

$$-2(5) + 1$$

$$-10 + 1$$

$$-9$$

$$h(x) = \frac{1}{2}x + 2$$

$$h(12) = \frac{1}{2}(12) + 2$$

$$\frac{1}{2}(12) + 2$$

$$6 + 2$$

$$8$$

Proper notation

$$\boxed{h(12) = 8}$$

j(15) if j(x) = 7

$$j(15) = 7$$

$$j(0) = 7$$

$$j(2) = 7$$

there isn't an x in the Rule, so you can't plug it into the rule.