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1.	Consider	the i	following	two	function	definitions:

$$y = x + 4$$

$$y = 4x$$

Which of these will produce the larger value? Explain your answer.

2. Consider the following two function definitions:

$$f(x) = x + x$$

$$f(x) = 2x - 1$$

Which of these will produce the larger value? Explain your answer.

3. Check the box next to all true statements about functions. If it's not true, leave it unchecked.

- A function is the value of a number
- A function is a rule that takes in an input and produces an output
- A function is a number problem with multiple answers
- A function is a graph with two axes
- A function is how you figure out the value of a variable
- A function can be described with a bunch of input/output examples
- The only thing you can do with a function is compute an answer
- ☐ The only thing you can do with a function is draw a graph for it
- A function is an equation that changes value
- A function is an expression with variables
- A function is a math problem where there is one output for every input
- ☐ I have no idea what a function is (I'm guessing at all of these)

4. Consider the expression 7n + 5



a. The arrow points to n. What does n stand for?

b. Could n represent 21? Why or why not?

c. Could n represent the expression (32 - 9)? Why or why not?

d. How many different numbers could n represent?