PostTest

1. Consider the following two function definitions:

$f(a) = 5a$ $g(a) = a + 5$

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

2. Consider the following two function definitions:

$f(y) = 4y - y$ $h(y) = 3y - 4$

Which of these functions will always 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 3m - 6**

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

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

c. Could m represent the expression (5 + 2)? Why or why not?

d. How many different numbers could m represent?