1	Consider	tha	following	taro	function	definitions:
ı.	Consider	uie	TOHOWING	two	luncuon	deliniuons:

$$y = x + 4$$

$$y = 4x$$

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

2. Consider the following two function definitions:

$$y = x + x$$

$$y = 2x - 1$$

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.

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L	┙	Α	functi	on is	s a rule	that	takes	in a	n inp	ut and	produces	an	out	:put
		11	Tuncu	OH	aiuic	mai	tancs	III a	пшр	ut anu	produces	an	\mathbf{v}	uι

- 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?