PreTest

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1. **Consider the following two function definitions:**

   f(a) = a + 4
   g(a) = 4a

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

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2. **Consider the following two function definitions:**

   g(y) = y + y
   h(y) = 2y - 1

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

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3. **A friend sees the word "function" in your math book and asks what it means. In terms of mathematics, how do you explain "function" to them?**

4. **Consider the expression   7n + 5**

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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?*