TRS 92 Day 21 Activity

## **Function Notation**

1. Refer back to #2 in the Day 9 Activity, *Writing Expressions*. You wrote an expression for the cost of the materials of the box using s as the length of the side of the box in inches.

- a. Write an equation based on your expression with function notation. Use *C* to represent the cost in dollars.
- b. What is the independent variable?
- c. What is the dependent variable?

## **Function Notation in Context**

The amount of money owed, a, by Sarah on her student loans is \$32,000. She pays off her loan at a rate of \$100 per month, m. The equation that illustrates this scenario is a(m) = 32000 - 100m

- 2. Circle the correct answers in the paragraph below.
  - a. In the notation a(m), m represents the [independent variable or dependent variable] and a(m) represents [independent variable or dependent variable].
  - b. The general form of this notation would mean that [dependent(independent) or independent(dependent)].
  - c. Specifically in this situation, given the [amount owed or time in months] you can predict the [amount owed or time in months]
- 3. Fill in the following table using the equation from #2:

What to find	The notation in the first column means	Solution	What does it mean in context?
a(1)	m=1 a=1		
a(25)	m=25 a=25		
a(m)=0	m=0 a=0		

4. Gordy needs to find a babysitter for his grandson. The cost, $C$ , in dollars, for the sitter is $C(h) = 25 + 6h$ , where $h$ is the number of hours babysitting.			
n.			
n.			
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