1. Given $2(x + 4) - 3$, state the constant.

2. Given $5x - 3x(x - 6)$, list the terms.

3. Translate into words: $10x - 0.25(10x)$

4. Convert 55 mph to feet per seconds.

5. Convert 96 months to years.

6. The calculator order was placed the other day. The calculators cost $15 each and $8.99 for shipping was added to the order. The tax charged was 7%. If the total purchase amount was $1424.88, determine how many calculators were ordered. Find the equation to solve the given scenario.

7. In problem #6, if the answer was x = 88.21744548, how would you interpret this answer?

8. Parker is ordering t-shirts for his club at school as a fundraiser. The design fee is $25 and the t-shirts cost $7.99 each including tax and shipping. Since he is ordering for a school, he gets a 20% discount on the t-shirts. The president said he must order more than $200 worth for the club to make a profit when they resell them. How many t-shirts must he order to be able to make a profit? Find the inequality to use for the give scenario.

9. $V = lwh$; solve for h

10. Given the function, f(x) = 2x-5, and a domain of {1, 2, 3, 4}, what is the range?

11. You and your friends to decide to go eat pizza Friday night. You will have to pay $1.25 a slice.

$f(x) = 1.25x$ f(3) =   Interpret:

12. Which equation represents the pattern in the table?

a. f(x) = 20x – 3   b. f(x) = -3x + 20

c. f(x) = 20x + 3   d. f(x) = 3x – 20

x	y
0	20
1	17
2	14

13. Marty finds her roses multiply each year. After one year she had 50 roses. Two years later she had 65. Year three she noticed 80 roses. Year four had a total of 95 roses. Find a linear function to model the growth of Marty's roses.

Identify your ordered pairs:

Properties and Proofs. Name the property used to turn each equation into the next one.

14. 6x – 5(x + 4) = 12 → $6x - 5x - 20 = 12$
A. Addition Property of Equality   B. Subtraction Property of Equality   C. Distributive Property of Equality

15. 3(5x -3) = 21 → 5x -3= 7

A. Division Property of Equality   B. Combine like Terms   C. Multiplication Property of Equality

16. Apply the symmetric property to 28 = 10 – 6x. What is the result?

    A. -28 = 10 – 6x   B. 10 – 6x = 28   C. 6 – 10x = 28   D. 28 = 10 – 6x

17. Apply the multiplication property (· 3) to $\frac{4}{3}x + 1 = 5$. What is the result?

    A. 4x + 3 = 15   B. 12x + 1 = 5   C. 12x + 3 = 15   D. $5 = \frac{4}{3}x + 1$