$$x + 5$$

$$x + 5 = 12$$

What are the 4 operations and what words/thoughts come to mind with each of these operations?			

Give two ways to interpret the algebraic expression in words _____ _____

1. $x + 5$	2. $y - 4$	3. $7k$	4. $\dfrac{10}{g}$

Write an algebraic expression for the verbal expression. Identify the terms, coefficients, constants, and/or factors.

5. The difference of twice a number and 8.

6.	7.	8.
10 more than five times a number.	5 less than one third a number.	7 increased by the quotient of a number and 6.
Terms:	Terms:	Terms:
Coefficients:	Coefficients:	Coefficients:
Constants:	Constants:	Constants:
Factors:	Factors:	Factors:

Order of Operations

Simplify: $19 - 7 + 12(2^2)$ in two different orders

How do you remember the correct order?

Evaluate each expression for *x* = 3, *y* = 1, *z* = −6

9. $4x - 3y + z$	10. $8 - 3xyz$	11. $(x^2 + z^2) - 3y$	12. $\dfrac{9z}{x} + 2y$

Word Problems

Ex 13:
You are selling cupcakes and lemon bars for a fundraiser for building a new library. Cupcakes cost $1.50 each and lemon bars are $.50 each. Write and expression that represents the amount of money you make form the bake sale.
Variables:

_____ = number of _____

_____ = number of _____

How much would you make if you sold 20 cupcakes and 35 lemon bars?

Ex 14:
At Chili's the other night the bill was *d* **dollars** before tax. The rate of tax is 8%.

- Write an expression that represents how much the total bill was.

- If *d* = $35 what was the total bill?

Write an expression that represents how much you owe if you went to dinner with *f* friends and you split the bill evenly amongst you and your friends.

- If *d* = $40 and *f* = 4

Ticket out the Door

Given the variable expression *4x + 2y – 6*

Identify: Terms: *Coefficients:*   *Constants:*   *Factors:*

Let x = _____ and y = _____ then evaluate the expression.