# Chapters 5 and 6 – Algebra Study Card

#### Vocabulary:

Equation – a mathematical sentence that contains an equal sign Term – the product of a coefficient, a variable, and an exponent Inequality- a mathematical sentence that contains >, <,  $\geq$ , or  $\leq$ 

#### **Evaluating Algebraic Expressions**

Substitute the appropriate values and use order of operations to simplify

Evaluate the following when a = 5, b = -3, and c = 8







### **Solving Equations-Word Problems**

When solving a word problem algebraically don't forget to include a Let statement

Ex: The Richardson family is looking to rent a tent for their child's graduation party this spring. Syracuse Tents and Events charges a fee of \$50 per hour plus a delivery fee of \$79.99. Century Party Rentals has a fee of \$65 per hour with a delivery fee of \$42.49. How many hours would the family need to rent the tent for the cost of the companies to be equal?



## Solving Inequalities – Word Problems

Remember to include a let statement

Tony is a delivery man for Trappers Pizza Pub. He earns a salary of \$10.65 plus any tips he receives from a delivery. What is the least number of hours Tony can work on Saturday if he makes \$40 in tips and wants to make at least \$100?