Algebra 3-5: Solving ax + b = c

Warm-Up

1. ABC is translated to A'B'C' by sliding 3 units down and 2 units to the left. The coordinates of ABC are A (1, 0), B (2, -3), and C (-4, -1). What are the coordinates of A'B'C'?

 $2. \ LMN \ is \ translated \ 3 \ units \ down \ and \ 2 \ units \ left. \ What \ are \ the \ coordinates \ of \ L'M'N', \ if \ L \ is \ (x,y), \ M \ is \ (s,t), \ and \ N \ is \ (s,t), \ and \ (s,t), \ (s,$

(q, r)? (4/2, y-3) M(5-2, 7-3) N'(5-2, 7-3)

Goal: Our goal is to isolate the variable (but variable)

We will ALWAYS have a correct answer because we can <u>Check</u> our answer by <u>Plugging the answer into</u> the equation.

When solving 2 step equations ask yourself the following questions...

- 1. Can you combine anything on the left-hand side (LHS)? Do it!
- 2. Can you combine anything on the right-hand side (RHS)? Do it!
- 3. What side is the variable on?
- 4. Is there a number being **added/subtracted** to THAT side? Get rid of it! Do the opposite.
- 5. Is the variable being **multiplied** by anything? Get rid of it! Do the opposite.
- 6. **Check** your answer.
- 7. In order to easily see your answer, ______it.

