Algebra 1 ECA Remediation

Lesson 2

Solving Linear Equations

Steps to follow...

- 1. Simplifying the left and right side of the equation as two separate expressions.
- 2. Move the variables to the same side of the equal sign, using opposite operations. Suggestion: move the variable with the smaller coefficient
- 3. Move all numbers away from the variable.
 - a. Take care of addition and subtraction first
 - b. Take care of multiplication and division second

Opposite Operations

Remember:

$$x \leftrightarrow 1x$$

$$-x \leftrightarrow -1x$$

Solve each Equation

1.
$$2(n+5) + 3n = 7n - 18$$

2.
$$5(-3-2x)-8(6+3x)=-10x+3x$$

3.
$$-3(x-7) = 4(2x-5) - 3$$

4.
$$4-x=\frac{26-7x}{5}$$

5.
$$7.5(3.4 - 6.1b) = -3.7b - 37.575$$

6. Find the mistake that was made when solving the equation. Explain why the work shown is incorrect. Solve the problem for the correct answer.

$$-96 = 3(12 - 2x)$$

$$-96 = 36 - 6x$$

$$-60 = -6x$$

$$10 = x$$