Solving Multi-Step Equations

- Simplify each side of the equation by distributing and combining like terms, when necessary.
- If variables are on both sides of the equation, balance the equation by moving one variable term to the opposite side of the equals sign using inverse operations.
- 3. Follow the process for solving one- and two-step equations to get the variable by itself.

2(x-9) = 3(x-5) 2x-18 = 3x-15-2x = 2x

> -18 = X -15 +15 X5

> > -3=X

$$-4(6x+7) = 2x + 8 - 7x$$

$$-20x - 28 = -5x + 8$$

$$+6x$$

$$-16x - 38 = 8$$

$$+28$$

$$-16x = 36$$

$$-$$