

How do you solve a multi-step equation? Things to keep in mind.

What do you do with **parentheses** in the original equation?

What are the Inverse Operations?

If I see...

Then I use the inverse...

Addition

Subtraction

Multiplication

Division

What does it mean to **combine like terms**?

Any other reminders you want to make note of?

Let's practice our skills together on a few examples.

Example #1: Solve this equation.

$$9x - 6x + 15 = -12$$

Example #2: Solve this equation.

$$-2x - 10x + 12 = 18$$

Example #3: Solve this equation.

$$2(1 - x) + 4 = -8$$

Example #4: Solve this equation.

$$-2(x - 4) + 3x = 13$$

Example #5: Solve this equation.

$$15 + 7x = 3 + x$$

Example #6: Solve this equation.

$$15 + 2x = 7 + x + 1$$