

Agenda

- Homework:
 - Combining Like Terms Worksheet

- Materials:
 - Notebook

- Set up Cornell Notes in your notebook:
 - **Topic:** Combining Like Terms
 - **EQ:** How do you combine like terms to solve multi-step equations?
- Update Table of Contents

Set up CN

- **Topic:** Combining Like Terms
- **EQ:** How do you combine like terms to solve multi-step equations?



What is a term?

- A term can be a number, a variable, or a product of numbers and variables

$$\underbrace{7x}_{\text{term}} + \underbrace{5}_{\text{term}} - \underbrace{3y^2}_{\text{term}} + \underbrace{xy}_{\text{term}} + \underbrace{\frac{x}{3}}_{\text{term}}$$

*Note: If there is a number being multiplied by a variable, we call that number a COEFFICIENT

$$5 + 3$$

8

5 cats + 3 cats

8 cats

5 boxes + 3 boxes

8 boxes

$$5a + 3a$$

$$8a$$

$$5b + 3b$$

$$8b$$

5 cats + 3 dogs

5 cats + 3 dogs





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5 apples + 3 oranges

5 apples + 3 oranges



What are like terms?

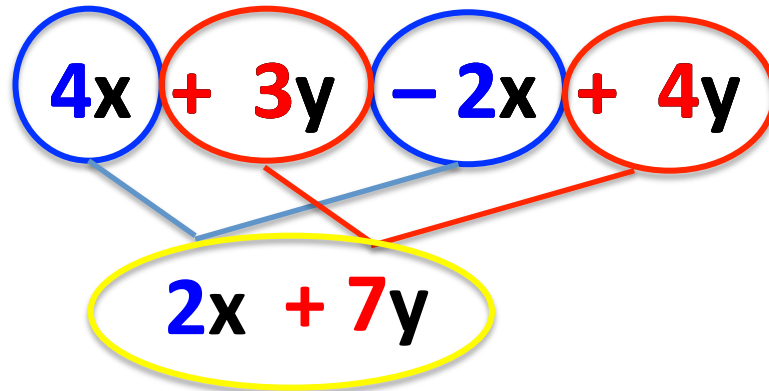
- Terms in an expression are **like terms** if they have identical variable parts.



How do you combine like terms?

1. Identify like terms by circling them
2. Combine the terms by adding their **coefficients**

Note: The sign in FRONT of the coefficient, belongs to that term



How do you solve equations with like terms?

Let's combing like terms!

$$\underbrace{3x - 4 + 2x + 12 - x}_{\text{combining like terms}} = 20$$

This is a 2 step equation! 

$$4x + 8 = 20$$
$$- 8 \quad - 8$$

$$\frac{4x}{4} = \frac{12}{4}$$

$$x = 3$$

