



Vocabulary

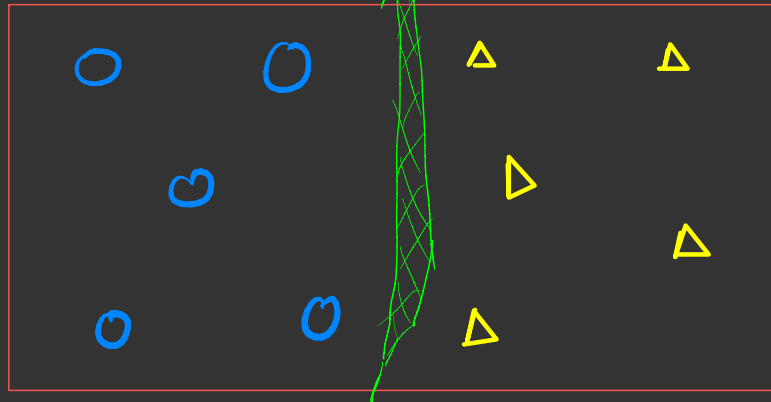
Choose the best term from the box to complete each definition.

1. In an algebraic expression, like terms are terms that have the same variables raised to the same exponents.
2. Quantities that represent an unknown value are Variables.
3. A Proportion is a statement that two ratios are equal.
4. Operations that "undo" each other are Inverse operation.

inverse operations
like terms
proportion
variables

Like Terms

Team A



Team B

E.g. $2x + 3x$

$$2x + 3y$$

$$2x + 2x^3$$

$$(2x) + (3y) + (5t) + (5y) + (x)$$

$$[2x + x] + [3y + 5y] + [5t]$$

$$\underline{\underline{3x + 8y + 5t}}$$

Combining Like terms

→ Additive Inverse

eg. $+5 - 5 = 0$

$$10 - 10 = 0$$

What is the additive inverse of 7?
 $= -7$

Multiplicative Inverse

eg. $5 \times \frac{1}{5} = 1$

$$\frac{1}{7} \times 7 = 1$$

What is the multiplicative inverse of 3?
 $= \frac{1}{3}$

Identify Like Terms

Complete the statements to identify the like terms in each expression.

5. $4x + 7y - 6z + 6y - 9x$

$4x$ and are like terms.

$7y$ and are like terms.

6. $\frac{1}{2}s - (6u - 9u) + \frac{1}{10}t + 2s$

$\frac{1}{2}s$ and are like terms.

$6u$ and are like terms.

⑤

$$4x + 7y - 6z + 6y - 9x$$

$$4x \quad \& \quad -9x$$

$$7y \quad \& \quad 6y$$

$$-6z$$

⑥

$$\frac{1}{2}s - (6u - 9u) + \frac{1}{10}t + 2s$$

$$\frac{1}{2}s \quad \& \quad 2s$$

$$6u \quad \& \quad -9u$$

$$\frac{1}{10}t$$

Solve One-Step Equations

Simplify each equation.

7. $2x = 10$

$$x = 5$$

8. $x + 3 = 12$

$$x = 9$$

9. $x - 7 = 1$

$$x = 8$$

$$4c - 3c = 7$$

$$c = 7$$

$$8x - 4x = 12$$

$$8 - 4 = 4x$$

$$\frac{1}{4} \times 4x = 12 \times \frac{1}{4}$$

$$x = 3$$