Solve Equations With Like Terms



Like terms are terms that have the same variables raised to the same powers. You can combine the like terms on each side of an equation to help solve the equation.

Let's try it! Solve 4h + 3 + 3h - 9 = 36.

First, find and combine like terms, paying attention to the signs. 4h and 3h are like terms, and 3 and -9 are like terms.

Then, use inverse operations to solve.

$$4h + 3 + 3h - 9 = 36$$

 $7h - 6 = 36$

$$7h - 6 + 6 = 36 + 6$$

$$7h = 42$$

$$\frac{7h}{7} = \frac{42}{7}$$

Practice! Solve each equation.

$$-7m + 10m - 8 = 25$$

$$12w - 7 - 3w = -61$$

$$8c - c - 9c + 6 = 40$$

$$9t + 3t - 17t + 4 = 49$$

$$-d + 11 - 4d + 9d = -17$$

$$5g + 2g + g + 6 - 7 = 23$$

$$15 - 8k + 15k - 8 = 42$$

$$-3a + 1 - 4a - 6 + a = 7$$