Solving Two-Step Equations Guided Notes

A **Two-Step Equation** is an equation that can be solved in two steps using the properties of equality and undoing the mathematical operations.

If x is the variable in the equation, then the two-step equation can be of the forms:



Undoing the Order of Operations

While simplifying the mathematical expressions, the order of operations followed is PEDMAS.



When solving an equation, we undo the operations in equation in the opposite sequence i.e. from bottom to top.

Name:

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Solving Two-Step Equations without Parenthesis

In solving these types of equations, we first add or subtract and then multiply or divide according to the equation.

$$ax + b = c$$
$$ax - b = c$$
$$\frac{x}{a} + b = c$$
$$\frac{x}{a} - b = c$$

Problem 1: Solve 2x - 6 = 8.

Problem 2: Solve
$$\frac{x}{4} + 3 = 9$$
.

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Solving Two-Step Equations with Parenthesis

In solving these types of equations, we first multiply or divide and then solve the expression in parenthesis using addition or subtraction, according to the equation.



Problem 3: Solve 5(x - 1) = 30.

