A **One-Step Equation** is an equation that can be solved in one-step using the properties of equality.

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

**Properties of Equality**

To solve one-step equations, the following properties of equality are used.

* **Addition Property of Equality**
* **Subtraction Property of Equality**
* **Multiplication Property of Equality**
* **Division Property of Equality**

These properties are applied on both sides of the equality.

**Using Addition Property of Equality**

This property means adding same number on both sides of the equation and is applicable on the following type of equations:

**Problem 1: Solve**

**Addition Property of Equality**

**Using Subtraction Property of Equality**

This property means subtracting same number on both sides of the equation and is applicable on the following type of equations:

**Problem 2: Solve**

**Subtraction Property of Equality**

**Using Multiplication Property of Equality**

This property means multiplying same number on both sides of the equation and is applicable on the following type of equations:

**Problem 3: Solve**

**Multiplication Property of Equality**

**Using Division Property of Equality**

This property means dividing same number on both sides of the equation and is applicable on the following type of equations:

**Problem 4: Solve**

**Division Property of Equality**