



CHAPTER - 4 SIMPLE EQUATIONS

What Equation Is?

An **equation** is a condition on a **variable** such that two **expressions** in the variable should have equal value.

SIMPLE EQUATIONS: An equation is a condition on a variable such that two expressions in the variable should have equal value.

Solution of the equation: The value of the variable for which the equation is satisfied is called the solution of the equation.

- An equation remains the same if the LHS and the RHS are interchanged.
- In case of the balanced equation, if we
 - add the same number to both the sides, or
 - subtract the same number from both the sides, or
 - multiply both sides by the same number, or
 - divide both sides by the same number, the balance remains undisturbed, i.e., the value of the LHS remains equal to the value of the RHS.
 - An equation remains the same if the **Left-hand side (LHS)** and the **right-hand side (RHS)** are interchanged.
- **Equation -----> Solution (normal path)**
- **Solution -----> Equation (reverse path)**

Question 1:

Complete the last column of the table.

S. No.	Equation	Value	Say, whether the equation is satisfied. (Yes/No)
(i)	$x + 3 = 0$	$x = 3$	By putting $x = 3$, L.H.S. = $3 + 3 = 6 \neq$ R.H.S. \therefore No, the equation is not satisfied.
(ii)	$x + 3 = 0$	$x = 0$	Do your self
(iii)	$x + 3 = 0$	$x = -3$	Do your self



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S. No.	Equation	Value	Say, whether the equation is satisfied. (Yes/No)
(iv)	$x - 7 = 1$	$x = 7$	Do your self
(v)	$x - 7 = 1$	$x = 8$	By putting $x = 8$, L.H.S. = $8 - 7 = 1 =$ R.H.S. \therefore Yes, the equation is satisfied.
(vi)	$5x = 25$	$x = 0$	Do your self
(vii)	$5x = 25$	$x = 5$	Do your self
(viii)	$5x = 25$	$x = - 5$	Do your self
(ix)	$\frac{m}{3} = 2$	$m = - 6$	Do your self
(x)	$\frac{m}{3} = 2$	$m = 0$	Do your self
(xi)	$\frac{m}{3} = 2$	$m = 6$	Do your self