

SIMPLE EQUATION

CHAPTER -4

An equation is a condition on a variable such that 2 expressions in the variable should have equal value . The value of the variable for which the equation is satisfied is called the solution of the equation.

Variable

Variable is an unknown number which could have a different numerical value. It is called **Variable** as it can vary.

It is represented by different letters from a to z

From variables, we form expressions.

The expressions are formed by performing operations like addition, subtraction, multiplication and division on the variables.

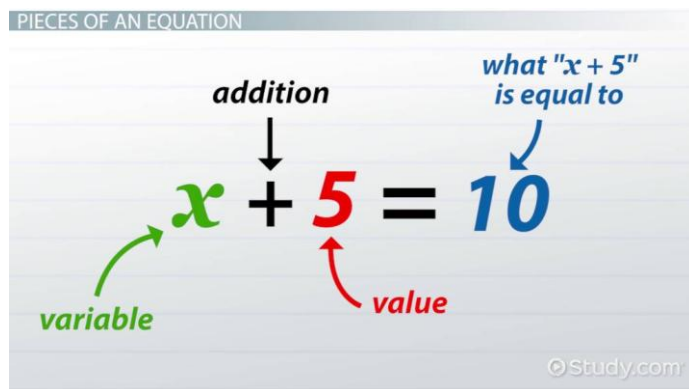
An expression is a mathematical phrase with numbers, variables and operators. e.g. $2x-2$, $2x+4$, $4y$ etc.

From expressions we get equations.

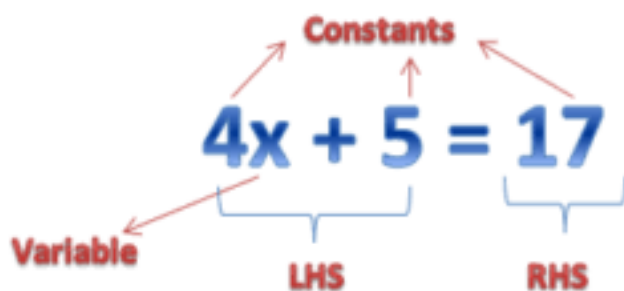
An equation is a condition on a variable such that two expressions in the variable should have equal value. It is a statement of equality between two mathematical expressions containing one or more variables. Denoted by Equal to sign '='

So, An equation is a condition on a variable. It says that two expressions are equal

Example -1 :

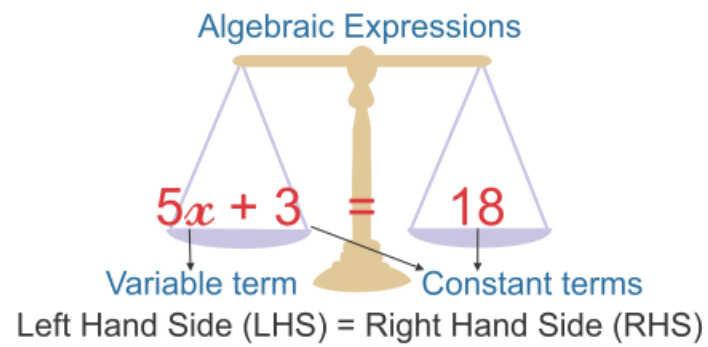


Example -2 :



Balancing Of Equation :

Statement of equality of two algebraic expressions.



For the equation $5x + 3 = 18$,
if $x = 3$, then equation is balanced, i.e. $18 = 18$