STD VI Maths

Fundamental Concepts Of Algebra

Assignment (ii)

Instructions to the students : The notes provided must be copied to the math's copy & then do the Home Work in the same copy.

- Algebra is generalized arithmetic
- Letters used to represent numbers are called literals
- If X is any literal & n is a natural number, then

  $X^n = \chi \times \chi \times \chi \times \chi$ ….. taken n times,

  Where x is called the **base** , n is called the **exponent or index** & X^n is called the **exponential form**
- A combination of constant & variables using the signs +, - , $\times$ & ÷ is called an algebraic expression

Solved Examples

Ex. 1 write each of the following in mathematical form using signs & symbols;

i) 5 times X is increased by 3 gives 8

$= 5X + 3 = 8$

ii) 12 decreased by x equals 7

$12 - X = 7$

iii) X exceeds y by 25

$X - y = 25$

Ex. 2 Raju's fathers age is 2 years more than 3 times Raju's age. If Raju's present age is y years. What is his fathers age

Solu. Raju's age = y years

His fathers age = 3 × Raju's age + 2

= 3 × y + 2

= (3 y + 2) years

Ex. 3 The length of the rectangular hall is 5 metres less than 3 times the breadth of the hall. What is its length, if the breadth is b metres

Solu. Breadth of the hall = b metres

As the length of the hall is 5 metres less than 3 times the breadth of the hall

Its length = $(3 \times b - 5)$ metres = $(3b - 5)$ metres

Home Work

Ex. (9.2) Question No. 2 , 3 & 4

(9.3) Question No. 2 , 4 , 6 , 9 , 11 & 14