

VI- Mathematics Assignment No-03-Algebra

- Q1. Ajay think of a number, add 4 to it and the result is 10. Express in algebraic form. (Take number as  $x$ )
- Q2. Anika think of two numbers, their difference is multiplied by 3, the result is 24. Form algebraic expression
- Q3. A number is 5 more than  $3x$ . Express this number by an algebraic expression.
- Q4. Form an equation for the given statement,
- (i) When 14 is added to a number, the result is 70.
  - (ii) The difference of a number with 3 is 10
  - (iii) Five times a number is 25
  - (iv) A number divided by 3 gives 15
  - (v) Three is added to two times of a number gives 13.

Cont-Pg-2

(Q5) Replace \* by a number to make Pg-2  
a true statement

(i)  $* + 5 = 15$

(ii)  $* - 3 = 12$

(iii)  $* \div 4 = 12$

(iv)  $\frac{*}{3} = 5$

(v)  $8 \times * = 48$

(Q6). Pick out one value from the two values given in the bracket to make a true statement

(i)  $x + 5 = 10$  ; (5, 6)

(ii)  $3x = 30$  ; (10, 11)

(iii)  $\frac{x}{2} = 10$  ; (20, 30)

(iv)  $x - 3 = 10$  ; (13, 23)

(v)  $3x + 5 = 5$  ; (0, 10)

Fill the gap:

(Q7)

$n$	2	-2	1	-1	3	-3
$n + 5$	-	-	-	-	-	-

(Q8) Solve the following equations for  $x$ : Pg. 3

(i)  $x + 8 = 10$

(ii)  $x - 3 = 13$

(iii)  $x \times 5 = 50$

(iv)  $x \div 5 = 30$

(v)  $4x = 20$

(Q9) A Cuboid is a three dimensional object, (Look at your pencil box which is a Cuboid), having length 'l', width 'b' and height 'h'. Calculate the total length of edges of the Cuboid.

(Q10) Nisha scored one-half the total marks scored by Sita and Geeta in Maths. If Sita and Geeta scored  $x$  and  $3y$  marks respectively, express, by an algebraic expression, the marks scored by Nisha.

ANSWERS:-

(Q1) $x + 4 = 10$	(iv) $x \div 3 = 15$	(Q6) (i) 5	(Q8) (i) 2
(Q2) $3(x - 3) = 24$	(v) $3 + 2x = 13$	(ii) 10	(ii) 16
(Q3) $(3x + 5)$	(Q5) (i) 10	(iii) 20	(iii) 10
(Q4) (i) $x + 14 = 70$	(ii) 15	(iv) 13	(iv) 150
(ii) $x - 3 = 10$	(iii) 48	(v) 0	(v) 5
(iii) $5x = 25$	(iv) 15	(Q7) 7, 3, 6, 4	(Q9) $(4l + 4b + 4h)$
	(v) 6	8, 2	(Q10) $\frac{1}{2}(x + 3y)$