CH. 10 : MENSURATION

1. The length and breadth of a Rectangle are 11 cm and 9 cm. Find its area and Perimeter?

2. The area of a Rectangle is 144 sq cm and its length is 16 cm. Find the breadth of the Rectangle?

3. Find the perimeter of a regular hexagon of side x cm.

4. If the perimeter of a regular pentagon is 65 cm. Find its side?

5. The perimeter of a triangle is 42 cm. If two of its sides are 16 cm and 12 cm. Find its third side?

6. A piece of string is 45 cm long. It is bent to form an equilateral triangle. Find the side of triangle.

7. An athlete takes 5 rounds of a rectangular park 120 m long and 80m wide. Find the total distance covered by him.

8. Find the area of a square whose perimeter is 260 cm.

9. The total cost of fencing a square park at Rs. 20 per metre is Rs. 2880. Find the side of the square park.

10. The floor of a room with dimensions 5 m and 3m is to be covered with square tiles. If each square tile is of side 25 cm. Find the number of tiles required.

Ch. 11 : Algebra

I. Write the expression for the following :-

a. Sum of 5 and x divided by 8

b. Product of 7 and y is added to twice 'x'

c. (-6) is multiplied by 'n' and the result is added to 8.

d. 'z' is subtracted from (-12)

e. 5 more than (-x) gives 14.

II. Fill in the blanks.

1. The solution of the equation x + 6 = (-20)

2. The variables in the expression 3x + y are _____

3. The expression for the perimeter of a regular pentagon whose side is 'p' cm is _____

4. Identify the equation in the following

   2m < 30,   7 – x = 5,   (t-7) > 5

5. Express the diameter (d) of a circle in terms of its radius (r).

III. Complete the following table and find the solution of the equation

   3 + 4x = 23

x	0	1	2	3	4	5
3 + 4x						

IV. Pick out the solution and show that other values do not satisfy the question.

   4m + (-5) = 15   (o, 7, 3, 5)

V. Let Raju's age be 'x' years.

a. His father is 2 years more than 3 times his age. What is the fathers age?

b. His sister is 3 years younger than him what is her age?

VI. Form expressions using x, 4 and 5. Every expression must have 'x' in it. Use only two number operations.

VII. Identify the operations involved in the following expressions ;-

   a) 2y + 17   b) $\frac{y}{8}$ - 6   c) -7m + 3

VIII. Leela bought some toffees. She gives some toffees to her friends and family members. Still 9 toffees remain. If the no of toffees she gives away is 'q', how many toffees she bought?