Class : VIII   Subject : Mathematics

Class	Subject	Teacher
Ser	Items	Details
1.	Syllabus for PT – II	Chapter 9 : Algebraic Expressions Chapter 10 : Visualising Solid Shapes Chapter 11 : Mensuration Chapter 12 : Exponents and Powers
2.	Revision Homework / Assignment	1. The parallel sides of a trapezium measure 12 cm and 20 cm. Calculate its area if the distance between the parallel lines is 15 cm. 2. Calculate the height of a cuboid which has a base area of 180 cm^2 and volume is 900 cm^3. 3. A square and a rectangle have the same perimeter. Calculate the area of the rectangle if the side of the square is 60 cm and the length of the rectangle is 80 cm. 4. From a circular sheet of radius 4 cm, a circle of radius 3 cm is cut out. Calculate the area of the remaining sheet after the smaller circle is removed. 5. A cuboidal box of dimensions 1 m × 2 m × 1.5 m is to be painted except its bottom. Calculate how much area of the box has to be painted. 6. Simplify the following expressions: (i) $(x + y + z)(x + y - z)$ (ii) $x^2(x - 3y^2) - xy(y^2 - 2xy) - x(y^3 - 5x^2)$ (iii) $2x^2(x + 2) - 3x (x^2 - 3) - 5x(x + 5)$ 7. Verify that $(11pq + 4q)^2 - (11pq - 4q)^2 = 176pq^2$ 8. Find the value of k if $(-2)^{k+1} \times (-2)^3 = (-2)^7$
3.	Subject Capacity Building Assignment	Activity 1: To verify, by paper cutting and pasting, that if two parallel lines are intersected by a transversal, then – (i) each pair of corresponding angles are equal (ii) each pair of alternate interior angles are equal (iii) Each pair of interior angles on the same side of the transversal is supplementary. Activity 2: To explore the relationship between - (a) Length (in cm) and perimeter (in cm) 2 (b) Length (in cm) and area (in cm) of 5 squares of different dimensions drawn on a squared paper. Activity 3: To make cuboids and cubes of given dimensions (4 x 3 x 2, 3 x 3 x 3) using unit Cubes and to calculate the volume of each. Activity 4: To derive the formula for total surface area of a cuboid.
4.	Preparatory Work for Units / Chapters to be covered after PT-II	Do Exercise 12.2 and 12.3 of Class VI NCERT text book