SAINIK SCHOOL AMBIKAPUR
CHHATTISGARH
WINTER VACATION HOMEWORK (2022-23)

Class: VII Subject: Mathematics

Class	Subject	Teacher
Ser	**Items**	**Details**
1.	Syllabus for PA/PT - Ill	1. Rational Numbers 2. Practical Geometry 3. Perimeter and Area 4. Algebraic Expressions
2.	Revision Homework / Assignment	1. Find using distributive property (i) $\left\{\frac{7}{5} X \left(\frac{-3}{12}\right)\right\} + \{\frac{7}{5} X \frac{5}{12}\}$ (ii) $\left\{\frac{9}{16} X \frac{4}{12}\right\} + \{\frac{9}{16} X \frac{-3}{9}\}$ 2. Find the value of $\frac{2}{5} X \frac{-3}{7} - \frac{1}{14} - \frac{3}{7} X \frac{3}{5}$ 3. Write (i) The rational number that does not have a reciprocal (ii) The rational number that are equal to their reciprocals (iii) The rational number that is equal to its negative. 4. Write 10 rational number that are smaller than -2. 5. Construct an equilateral triangle each of whose sides measures 602 cm. Measure each one of its angles. 6. A door-frame of dimensions 3m X 2m is fixed on the wall of dimension 10m X 10m. Find the total labour charges for painting the wall if the labour charges for painting 1m^2 of the wall is Rs. 2.50 7. A wire is in the shape of a square of side 10cm. If the wire is rebent into a rectangle of length 12cm, find its breadth. Which encloses more area, the square or the length. 8. One of the sides and the corresponding height of a parallelogram are 4cm and 3 cm respectively. Find the area of the parallelogram.
3.	Subject Capacity Building Assignment	1. Draw a perpendicular to a line from a point not on it, by paper folding. 2. Find the lines of symmetry of a given figure by paper folding. 3. Prove that the shapes having equal areas may not have equal perimeters by using activity. 4. Verify Pythagoras theorem by using activity. 5. Find the ratio of circumference of a circle to its diameter using activity.
4.	Preparatory Work for Units/ Chapters to be covered after PT-II	1. Do all exercises of chapter 13(Symmetry) of class 6 NCERT.

Signature