## **ST. THOMAS SCHOOL**

### WORKSHEET (JANUARY)

#### **SUBJECT: MATHEMATICS**

# **CLASS - VII**

#### **LEARN THESE FORMULAS**

**1.**Area of a rectangle = length  $\times$  breadth

**2.** Area of square =  $(side)^2$ 

**3.** Perimeter of rectangle = 2(length +breadth)

**4.** Perimeter of square =  $4 \times \text{Side}$ 

**5.**Area of rectangular path inside(or outside) a rectangular field= Area of outer rectangle- Area of inner rectangle

**6.** Area of cross paths = Area of all rectangles making the paths – Area of common rectangle

**7.** Area of a parallelogram = Base  $\times$  Height

8. Area of equilateral triangle =  $\frac{1}{2} \times \text{Base} \times \text{Height}$ 

**9.** Area of equilateral triangle =  $\frac{\sqrt{3}}{4} \times \text{side}^2$ 

**8.** For a circle of radius r units.

- Diameter (d) = 2r
- Circumference (C)=  $\pi \times$  diameter =  $\pi d = 2\pi r$
- Area of circle =  $\pi r^2$
- Area of semicircle of radius  $r = \frac{1}{2}\pi r^2$
- Area of a quadrant of circle of radius  $r = \frac{1}{4}\pi r^2$