MATHEMATICS WORKSHEET

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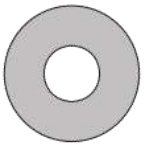
Board – ICSE	Class – 9th	Topic – Area and perimeter of plane figure

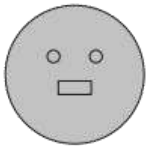
1. Find the area of the following circles, given that :
   (i) Radius =14 mm
   (ii) Diameter =49 m
   (iii) Radius =5 cm

   [Take $\pi = \frac{22}{7}$]

2. If the circumference of a circular sheet is 154 m, find its radius. Also, find the area of the sheet. [Take $\pi = \frac{22}{7}$]

3. From a circular sheet of radius 4 cm, a circle of a radius 3 cm is removed Find the area of the remaining sheet. [Take  $\pi = 3.14$]

4. Shazli took a wire of length 44 cm and bent it into the shape of a circle. Find the radius of that circle. Also, find its area. If the same wire is bent into the shape of a square, what will be the length of each of its sides? Which figure encloses more area, the circle of the square? [Take $\pi = \frac{22}{7}$]

5. From a circular card sheet of radius 14 cm, two circles of radius 3.5 cm and a rectangle of length 3 cm and breadth 1 cm are removed. (as shown in the adjoining figure). Find the area  of the remaining sheet. [Take $\pi = \frac{22}{7}$]

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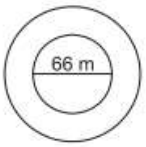
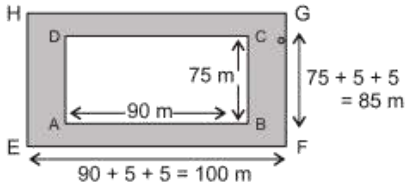
6. A circle of radius 2 cm is cut out from a square piece of an aluminum sheet of side 6 cm. what is the area of the left over aluminum sheet? [Take$\pi = 3.14$]

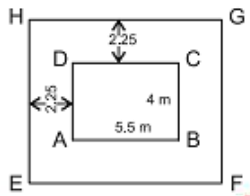
7. A circular flower bed is surrounded by a path 4 m wide. The diameter of the flower bed is 66m. What is the area of this path? [Take$\pi = 3.14$]



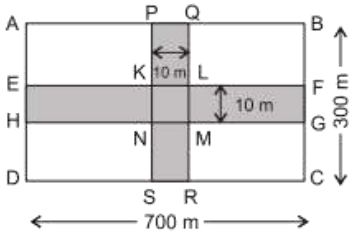
8. A garden is 90 m long and 75 m broad. A path 5 m wide is to be built outside and around it. Find the area of the path. Also, find the area of the garden in hectare.



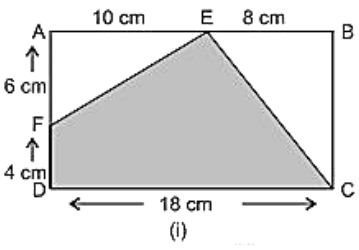
9. A verandah of width 2.25 m is constructed all along outside a room which is 5.5 m long and 4m wide. Find :
   (i) The area of the verandah.
   (ii) The cost of cementing the floor of the verandah at the rate of Rs 200 perm^2.

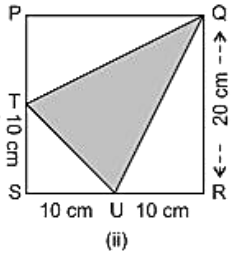


10. Two cross roads, each of width 10 m, cut at right angles through the Centre of a rectangular park of length 700 m and breadth 300 m and parallel to its sides. Find the area of the roads. Also, find the area of the park excluding cross roads. Give the answer in hectares.



11. In the following figures, find the area of shaded portions :





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