

VII- Mathematics Assignment No-06- Perimeter and Area.

Q1. Find the area of a circle if

(i) $r = 16 \text{ cm}$ (ii) Diameter = 10 cm

Q2. Find the area of a circle if its circumference is 440 cm

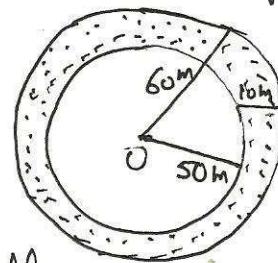
Q3. A horse is tied to a peg fixed at one corner of a rectangular field $45\text{m} \times 30\text{m}$ by means of a 7m rope

Find

(i) the area of that part of the field in which the horse can graze.

(ii) the increase in the grazing area if the rope were 14m long.

Rough figure

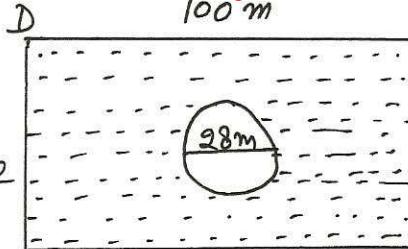


Q4. The diameter of a circular garden is 100m , on its outside there is a circular road 10m wide. Find the cost of levelling the road at Rs 7.50 per square metre.

Q5. A circle is inscribed in a square whose each side is 36cm . Find the area of the circular region

Cont Pg-2

- Q6. A garden is 100m long and 60 m broad. Inside the garden, there is a circular pit of diameter 28m. Find the cost of turfing the remaining portion of the garden at the rate of 7.50 / sq.m.



- Q7. The radii of two concentric circles are 7m and 8m. Find the area enclosed between the two circles.

- Q8. A cow is tied with a rope to one corner of square field of side 40m. If the length of the rope is 7m. Find the area of the cow can not graze.

- Q9. A piece of wire in the form of a rectangle 50m x 30m. It is cut at one place and bent in the shape of circle. Find the diameter of circle.

- Q10. A water sprinkler in a lawn sprays water as far as 7m in all directions. Find the length of the other edge of the wet grass.

ANSWERS:-

(Q1) (i) 616 cm^2 (ii) 78.57 cm^2	(Q4) ₹ 1178.57 (Q5) 1018.28 cm^2	(Q8) 1561.50 cm^2
(Q2) 15400 cm^2	(Q6) ₹ 40380.00	(Q9) 50.90 m
(Q3) (i) 38.5 m^2 (ii) 15.5 m^2	(Q7) 67.14 cm^2	(Q10) 44 m.