



area of $\odot = 22176 \text{ m}^2$

$$\pi r^2 = 22176$$

$$\frac{22}{7} \times r^2 = 22176$$

$$r^2 = \frac{22176 \times 7}{22}$$

$$\Rightarrow r = \sqrt{7 \times 7 \times 12 \times 12}$$

$$= 7 \times 12$$

$$= 84 \text{ cm}$$

rate = ₹ 0.50/cm

cost = rate \times circumf.

$$= .50 \times 2\pi r$$

$$= .50 \times 2 \times \frac{22}{7} \times 84$$

$$= \text{₹ } 26400$$

2)



dis. cov. by front wheel
= dis. cov. by rear wheel

no of rev. \times circum of front wheel
= no of rev. \times circum of rear wheel

$$\Rightarrow 1400 \times 2\pi r = n \times 2\pi R$$

$$1400 \times 40 = n \times 100$$

$$\Rightarrow n = 560$$