
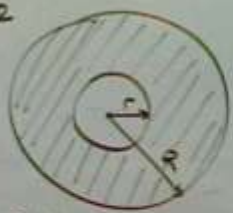


Multiple Choices – Topic (Area and Perimeter) Activity Booklet Pages (156 -163)

Q21 Q21-30



Q22



Q23

$$C = 2\pi r$$

$$88 = 2 \times \frac{22}{7} \times r$$

$$\frac{88}{2} = \frac{44r}{7}$$

$$44r = 7 \times 88$$

$$r = \frac{7 \times 88}{44}$$

$$= 21 \text{ cm}$$

Q24

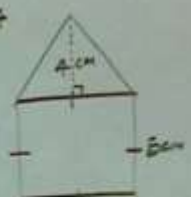
$$A = \pi r^2$$

$$= \pi \left(\frac{10}{2}\right)^2$$

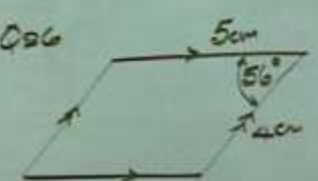
$$= \pi \times \frac{10}{2} \times \frac{10}{2}$$

$$= \frac{\pi \times 10^2}{4}$$

Q25



Q26



Area/parallelogram

$$= ab \sin \theta$$

$$= 5 \times 5 \sin 50^\circ$$

$$= 20.5 \text{ cm}^2$$

Q27

Total Area


$$= \text{Area of } \Delta + \text{Area of Sq}$$

$$= \frac{1}{2}bh + L \times L$$

$$= \frac{1}{2} \times 4 \times 5 + 5 \times 5$$

$$= 0 + 25 = 25 \text{ cm}^2$$

Q28




Area Shaded

$$= A \text{ of Sq} - A \text{ of Circle}$$

$$= 4 \times 4 - \pi r^2$$

$$= 16 - 16 = 42 \text{ cm}^2$$

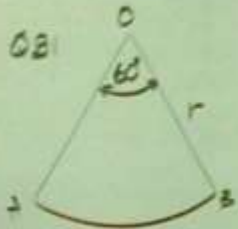
Q29



Perimeter

$$= 10 + 8 + 2 + 6 + 3 + 6 + 5$$

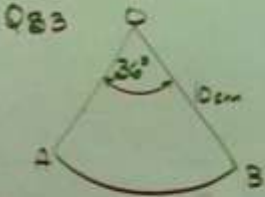
$$+ 8 = 48 \text{ cm}$$



$$\text{Area of Sector} = \frac{\theta}{360} \times \text{Area of Circle}$$

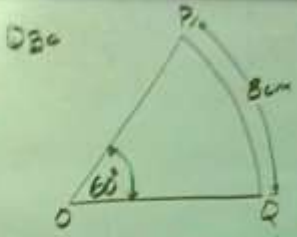
$$= \frac{60}{360} \times \pi r^2$$

$$= \frac{1}{6} \pi r^2$$



$$L = \frac{\theta}{360} \times \text{Circumference}$$

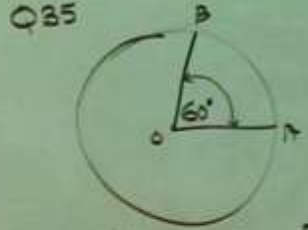
$$L = \frac{30}{360} \times 2\pi \times 0.5 = \frac{1}{6} \pi$$



$$L = \frac{\theta}{360} \times \text{Circumference}$$

$$L = \frac{60}{360} \times C$$

$$C = 6 \times 8 = 48 \text{ cm}$$

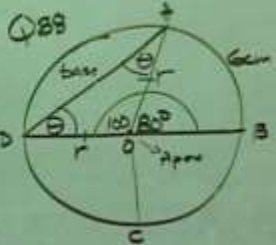


$$\text{Area of Circle} = 20 \text{ cm}^2$$

$$\text{Area of Sector} = \frac{\theta}{360} \times \text{Area of Circle}$$

$$= \frac{60}{360} \times 20$$

Q26 is a repeat of Q23  
Q27 is a repeat of Q21



$$\angle ADO = \theta$$

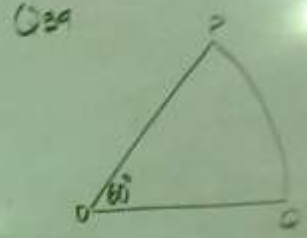
$$\theta + \theta + 60 = 180$$

$$2\theta = 180 - 60$$

$$2\theta = 120$$

$$\theta = 60$$

$$\angle ADO = 60$$



$$C = 44$$

$$C = 2\pi r$$

$$\frac{44}{2\pi} = r$$

$$r = \frac{44}{2\pi}$$

## Paper 2 Booklet (Topic Area and Perimeter)

Q. 1. D. 4. 9

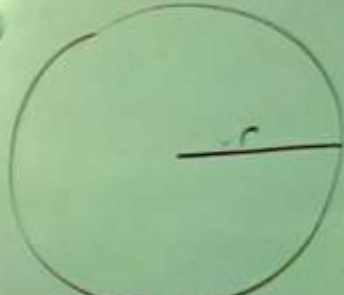
$\pi = \frac{22}{7}$

Area  $21 \text{ cm}^2$

Area  $21 = L^2$   
 $21 = L^2$   
 $\Rightarrow L = \sqrt{21}$   
 $= 11 \text{ cm}$

Perimeter  
 $= 11 + 11 + 11 + 11$   
 $= 44 \text{ cm}$

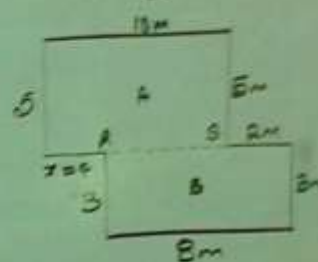
①



$C = 44 \text{ cm}$   
 $C = 2\pi r$   
 $44 = 2 \times \frac{22}{7} \times r$   
 $44 = \frac{44r}{7}$   
 $44r = 7 \times 44$   
 $r = \frac{7 \times 44}{44}$   
 $r = 7$

Q. 2. D. 5. 60

Area Circle  
 $= \pi r^2$   
 $= \frac{22}{7} \times 7^2 \times \frac{2}{2}$   
 $= 154 \text{ cm}^2$



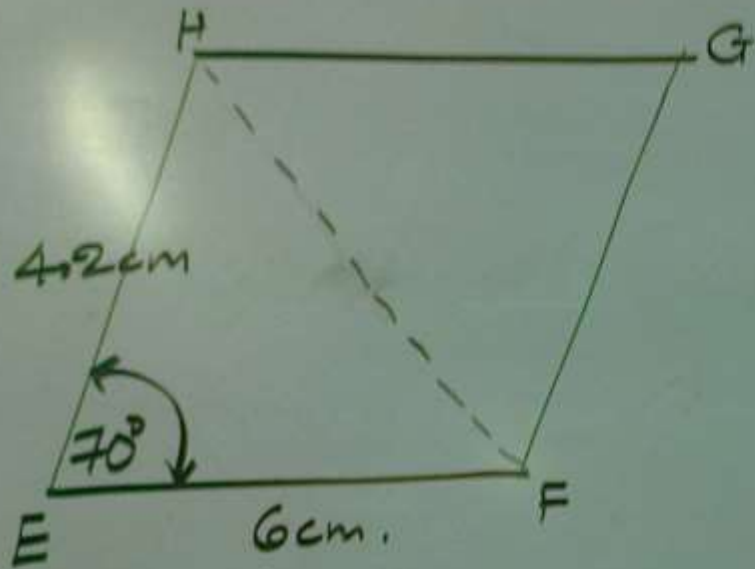
Area  $10 \times 10 = 100 \text{ m}^2$

Area  $8 \times 3 = 24 \text{ m}^2$

Perimeter  $10 + 10 + 10 + 10 = 40 \text{ m}$

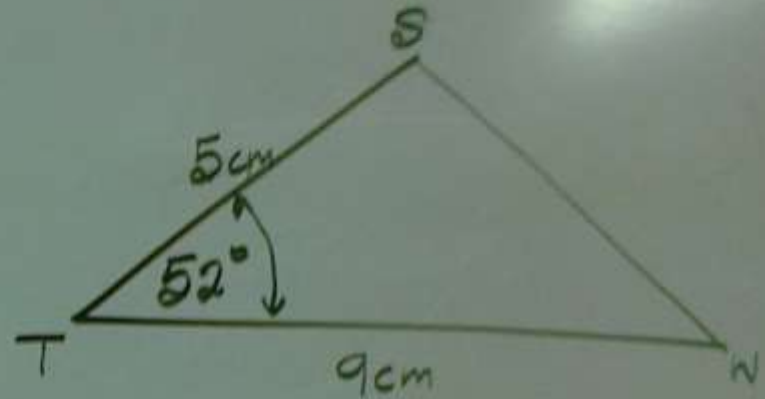
Total Area  
 $= \text{Area } A + \text{Area } B$   
 $= 100 + 24$   
 $= 124 \text{ m}^2$

2006/Q/2a ii/Pg 99



$$\begin{aligned} \text{Area} &= ab \sin \theta \\ &= 4.2 \times 6 \sin 70 \\ &= 23.7 \text{ cm}^2 \end{aligned}$$

2002/Q/2a ii/Pg 148



$$\begin{aligned} \text{Area} &= \frac{1}{2} ab \sin C \\ &= \frac{1}{2} \times 5 \times 9 \sin 52^\circ \\ &= 0.5 \times 45 \sin 52^\circ \\ &= 17.7 \text{ cm}^2 \end{aligned}$$