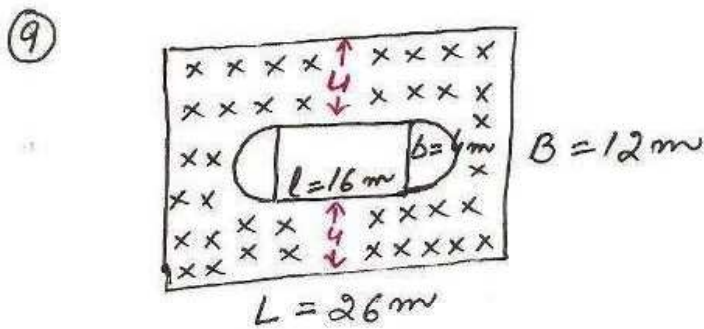
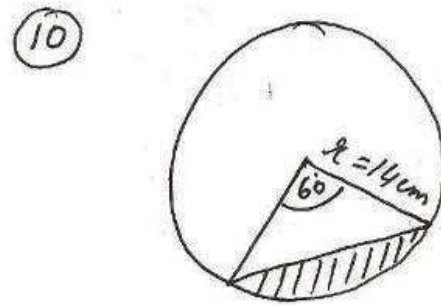


area of shaded region
 $= \text{ar}(\text{rect}) + \text{ar}(\text{semi } \odot)$
 $= 8 \times 4 + \frac{22}{7} \times \frac{2 \times 2}{2}$
 $= 32 + \frac{44}{7}$
 $= \frac{224 + 44}{7}$
 $= \frac{268}{7}$
 $= 38.28 \text{ cm}^2$



area of shaded region
 $= \text{area of outer rect} -$
 $\text{area of inner rect with semi circular ends}$
 $= LB - (lb + \frac{1}{2} \times \pi r^2)$
 $= 26 \times 12 - (16 \times 4 + \frac{22}{7} \times 2 \times 2)$
 $= 312 - (64 + \frac{88}{7})$
 $= 312 - \frac{448 + 88}{7}$



area of segment
 $= \text{area of sector} - \text{area}(\Delta)$
 $= \frac{\pi r^2 \theta}{360} - \frac{\sqrt{3}}{4} a^2$
 $= \frac{22 \times 14 \times 14 \times 60}{7 \times 360} - \frac{\sqrt{3}}{4} \times 14 \times 14$
 $= \frac{308}{3} - 49\sqrt{3}$
 $= \frac{308 - 147\sqrt{3}}{3}$
 $= \frac{53.38}{3}$
 $= 17.796 \text{ cm}^2$

$$\left. \begin{aligned} &= 312 - \frac{536}{7} \\ &= \frac{2184 - 536}{7} \\ &= \frac{1648}{7} \end{aligned} \right| = 235.428 \text{ cm}^2$$