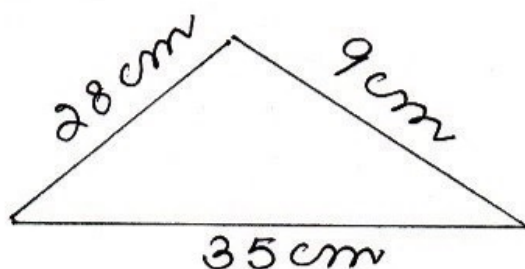


$$\begin{aligned} \textcircled{8} \quad s &= \frac{9+28+35}{2} \\ &= \frac{72}{2} \\ &= 36 \text{ cm} \end{aligned}$$



$$\begin{aligned} \text{area of } \triangle &= \sqrt{36(36-9)(36-28)(36-35)} \\ &= \sqrt{36 \times 27 \times 8 \times 1} \\ &= \sqrt{6 \times 6 \times 3 \times 3 \times 3 \times 2 \times 2 \times 2} \\ &= 6 \times 3 \times 2 \sqrt{6} \\ &= 36\sqrt{6} \text{ cm}^2 \end{aligned}$$

$$\begin{aligned} \text{area of design} &= 16 \times 36\sqrt{6} \\ &= 576\sqrt{6} \\ &= 576 \times 2.45 \text{ cm}^2 \end{aligned}$$

$$\begin{aligned} \text{cost of polishing} &= \frac{50}{100} \times 576 \times 2.45 \\ &= \text{Rs } 705.60 \end{aligned}$$