

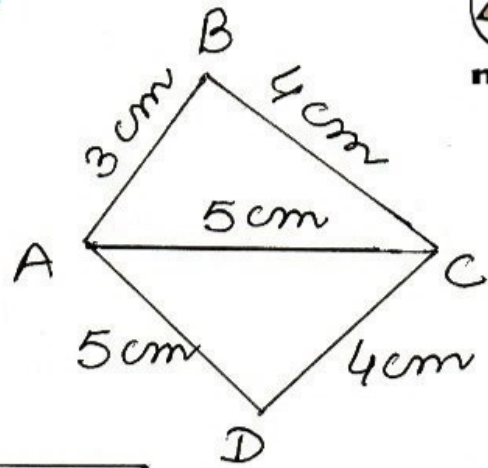
②

 $\triangle ABC$

$$s = \frac{3+4+5}{2}$$

$$= \frac{12}{2}$$

$$= 6 \text{ cm}^2$$



$$\text{area} = \sqrt{6(6-3)(6-4)(6-5)}$$

$$= \sqrt{6 \times 3 \times 2 \times 1}$$

$$= \sqrt{2 \times 3 \times 3 \times 2}$$

$$= 2 \times 3$$

$$= 6 \text{ cm}^2$$

 $\triangle ADC$

$$s = \frac{4+5+5}{2}$$

$$= 7 \text{ cm}$$

$$\text{area} = \sqrt{7(7-4)(7-5)(7-5)}$$

$$= \sqrt{7 \times 3 \times 2 \times 2}$$

$$= 2\sqrt{21} \text{ cm}^2$$

$$\begin{aligned} \text{area of } \square ABCD &= \text{ar}(\triangle ABC) + \text{ar}(\triangle ADC) \\ &= (6 + 2\sqrt{21}) \text{ cm}^2 \end{aligned}$$