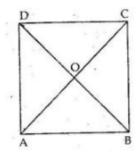


Exercise 10A

Question 3:

ABCD is a rhombus in which diagonal AC=24 cm and BD=16 cm.

These diagonals intersect at O.



Since diagonals of a rhombus are perpendicular to each other. So, in  $\Delta$  ACD,

OD is its altitude and AC is its base.

So, area of 
$$\triangle$$
 ACD =  $\frac{1}{2} \times$  AC  $\times$  OD
$$= \frac{1}{2} \times 24 \times \frac{BD}{2}$$

$$= \left(\frac{1}{2} \times 24 \times 8\right) \text{ cm}^2 \quad [\because BD = 16 \text{ cm}]$$

$$= 96 \text{ cm}^2$$

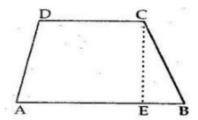
$$\Rightarrow \quad \text{Area of } \triangle \text{ABC} = \frac{1}{2} \times \text{AC} \times \text{OB}$$

$$= \left(\frac{1}{2} \times 24 \times 8\right) \text{ cm}^2 = 96 \text{ cm}^2$$
Now, area of r hombus = Area of  $\triangle$  ACD + Area of  $\triangle$  ABC
$$= (96 + 96) \text{ cm}^2$$

 $= 192 \text{ cm}^2$ 

Question 4:

ABCD is a trapezium in which, AB  $\parallel$ CD AB=9cm and CD=6 cm CE is a perpendicular drawn to AB through C and CE=8 cm



Area of trapezium=  $\frac{1}{2}$ (sum of parallel sides) $\times$ distancebetween them

$$= \left[\frac{1}{2}(9+6) \times 8\right] \text{ cm}^2$$
$$= \left(\frac{1}{2} \times 15 \times 8\right) \text{ cm}^2 = 60 \text{ cm}^2$$

...Area of trapezium = 60 cm²

\*\*\*\*\*\*\* END \*\*\*\*\*\*