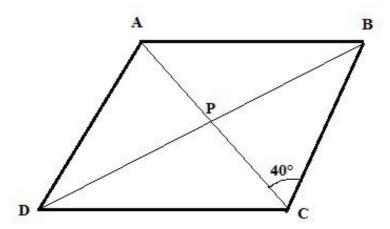


Understanding shapes-III special types of quadrilaterals Ex 17.2 Q5

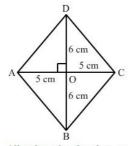
## Answer:



In a rhombus, the diagonals are perpendicular.

From  $\triangle$  BPC, the sum of angles is 180°.

Understanding shapes-III special types of quadrilaterals Ex 17.2 Q6



All sides of a rhombus are equal in length.

The diagonals intersect at  $90^{\circ}$  and the sides of the rhombus form right triangles. One leg of these right triangles is equal to 8 cm and the other is equal to 6 cm. The sides of the triangle form the hypotenuse of these right triangles.

So, we get: 
$$\left(8^2 + 6^2\right) \text{cm}^2$$

$$= (64 + 36) \text{ cm}^2$$

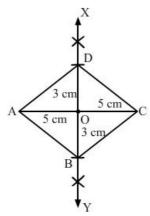
$$= 100 \text{ cm}^2$$

The hypotneuse is the square root of  $100\,\mathrm{cm}^2$ . This makes the hypotneuse equal to 10.

Thus, the side of the rhombus is equal to 10 cm.

Understanding shapes-III special types of quadrilaterals Ex 17.2 Q7

## Answer:



- 1. Draw AC equal to 10 cm.
- 2. Draw XY, the right bisector of AC, meeting it at O.
- 3. With O as centre and radius equal to half of the length of the other diagonal, i.e. 3 cm, cut OB = OD = 3 cm.
- 4. Join AB, AD and CB, CD.

