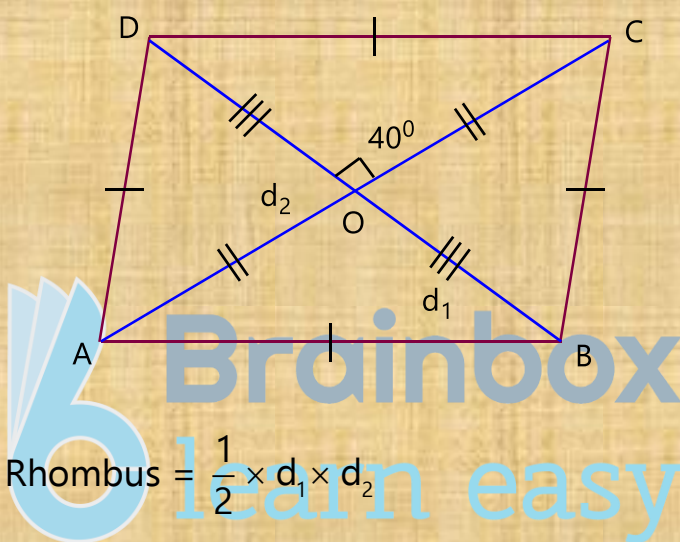


## CHAPTER 09

# Area of Plane Figures

### Area of Rhombus:

A parallelogram, in which all sides are equal, is called a 'rhombus'.

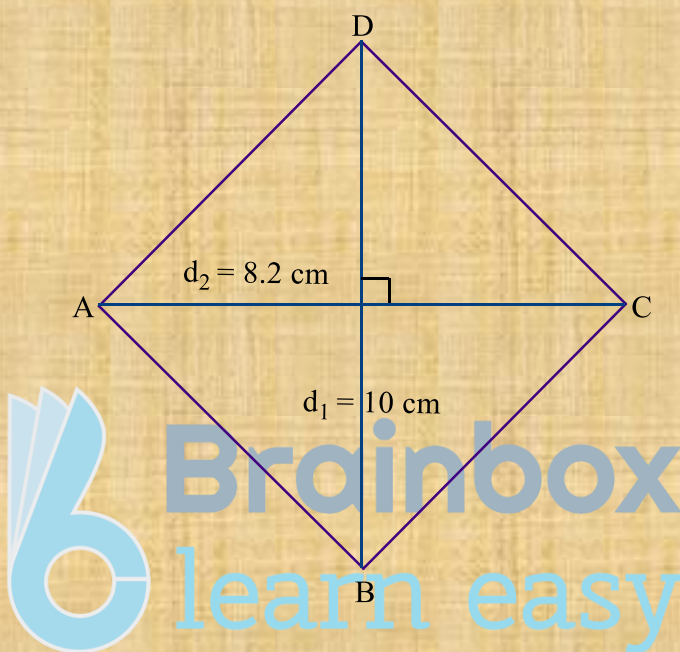


$$\text{Area of Rhombus} = \frac{1}{2} \times d_1 \times d_2$$

Where  $d_1$ ,  $d_2$  are the diagonals.

**Example:**

Find the area of a rhombus whose diagonals are of length 10cm and 8.2cm.

**Sol.**

Given that,

Length of 1<sup>st</sup> diagonal ( $d_1$ ) = 10 cm

Length of 2<sup>nd</sup> diagonal ( $d_2$ ) = 8.2 cm

$$\text{Area of the rhombus} = \frac{1}{2} \times d_1 \times d_2$$

$$= \frac{1}{2} \times \cancel{10}^5 \times 8.2$$

$$\text{Area of the rhombus} = 41 \text{ cm}^2$$