



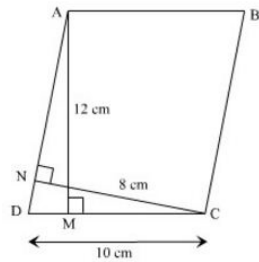
Mensuration I Ex 20.3 Q15

Answer :

We have,

$ABCD$ is a parallelogram with side $AB = CD = 10$ cm (Opposite sides of parallelogram are equal) and corresponding altitude $AM = 12$ cm.

The other side is AD and the corresponding altitude is $CN = 8$ cm



Area of a parallelogram = Base \times Height

We have two altitudes and two corresponding bases.

So,

$$\Rightarrow AD \times CN = CD \times AM$$

$$\Rightarrow AD \times 8 = 10 \times 12$$

$$\Rightarrow AD =$$

Hence, the length of the other pair of the parallel side = 15 cm.

Mensuration I Ex 20.3 Q16

Answer :

We have,

Altitude of a tile = 3 cm

Base of a tile = 5 cm

$$\text{Area of one tile} = \text{Altitude} \times \text{Base} = 5 \text{ cm} \times 3 \text{ cm} = 15 \text{ cm}^2$$

$$\text{Area of 280 tiles} = 280 \times 15 \text{ cm}^2 = 4200 \text{ cm}^2$$

$$\text{Rate of polishing the tiles at 50 paise per cm}^2 = \text{Rs. } 0.5 \text{ per cm}^2$$

Thus,

$$\text{Total cost of polishing the design} = \text{Rs. } (4200 \times 0.5) = \text{Rs. } 2100$$

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