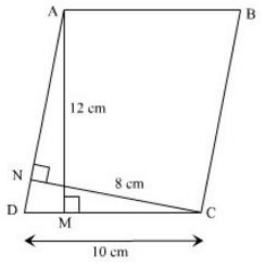
Mensuration I Ex 20.3 Q15

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 × 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

Area of one tile = Altitude x Base = 5 cm x 3 cm = 15 cm^2

Area of 280 tiles = 280 x 15 cm^2 = 4200 cm^2

Rate of polishing the tiles at 50 paise per cm^2 = Rs. 0.5 per cm^2

Thus,

Total cost of polishing the design = Rs. (4200 x 0.5) = Rs. 2100

********** END **********