Mensuration I Ex 20.4 Q1

Answer :

We know that the area of a triangle = $\frac{1}{2} \times \text{Base} \times \text{Height}$

(i) Here, base = 18 cm and height = 3.5 cm

$\therefore$ Area of the triangle = $\left(\frac{1}{2} \times 18 \times 3.5\right) = 31.5 \text{ cm}^2$

(ii) Here, base = 8 dm = (8 x 10) cm = 80 cm [Since 1 dm = 10 cm]

and height = 3.5 cm

$\therefore$ Area of the triangle = $\left(\frac{1}{2} \times 80 \times 15\right) = 600 \text{ cm}^2$

Mensuration I Ex 20.4 Q2

Answer :

We have,

Altitude of a triangle = $\frac{2 \times \text{Area}}{\text{Base}}$

Here, base = 12 cm and area = 42 cm^2

$\therefore$ Altitude = $\frac{2 \times 42}{12} = 7 \text{ cm}$

Mensuration I Ex 20.4 Q3

Answer :

We have,

Base of a triangle = $\frac{2 \times \text{Area}}{\text{Altitude}}$

Here, altitude = 8 cm and area = 50 cm^2

$\therefore$ Altitude = $\frac{2 \times 50}{8} = 12.5 \text{ cm}$

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