Mensuration I Ex 20.4 Q4

Answer :

In a right-angled triangle, the sides containing the right angles are of lengths 20.8 m and 14.7 m.
Let the base be 20.8 m and the height be 14.7 m.
Then,
Area of a triangle = $\frac{1}{2} \times \text{Base} \times \text{Height}$

$$= \frac{1}{2} \times 20.8 \times 14.7 \ = \ 152.88 \ \text{m}^2$$

Mensuration I Ex 20.4 Q5

Answer :

For the first triangle, we have,
Base = 15 cm and altitude = 7 cm
Thus, area of a triangle = $\frac{1}{2} \times \text{Base} \times \text{Altitude}$

$$= \frac{1}{2} \times 15 \times 7 = 52.5 \ \text{cm}^2$$

It is given that the area of the first triangle and the second triangle are equal.
Area of the second triangle = 52.5 cm^2
One side of the second triangle = 10.5 cm
Therefore,
The other side of the second triangle = $\frac{2 \times \text{Area}}{\text{One side of a triangle}}$

$$= \frac{2 \times 52.5}{10.5} = 10 \ \text{cm}$$

Hence, the other side of the second triangle will be 10 cm.

Mensuration I Ex 20.4 Q6

Answer :

We have,
Length of the rectangular field = 48 m
Breadth of the rectangular field = 20 m
Area of the rectangular field = Length x Breadth = 48 m x 20 m = 960 m^2

Area of one right triangular flower bed = $\frac{1}{2} \times 12 \ \text{m} \times 5 \ \text{m} \ = \ 30 \ \text{m}^2$
Therefore,

Required number of right triangular flower beds = $\frac{960 \ \text{m}^2}{30 \ \text{m}^2} \ = \ 32$

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