Mensuration Ex 20.2 Q1

Answer :

(i) Perimeter of a rectangle = $2 \times$(Length + Breadth)

$\because$ Length = 7 cm, Breadth = 5 cm

$\therefore$ Perimeter = $2 \times (7 + 5) = 2 \times (12) = 24$ cm

(ii) Perimeter of a rectangle = $2 \times$ (Length + Breadth)

$\because$ Length = 5 cm, Breadth = 4 cm

$\therefore$ Perimeter = $2 \times (5 + 4) = 2 \times (9) = 18$ cm

(iii) Perimeter of a rectangle = $2 \times$ (Length + Breadth)

$\because$ Length = 7.5 cm, Breadth = 4.5 cm

$\therefore$ Perimeter = $2 \times (7.5 + 4.5) = 2 \times (12) = 24$ cm

Mensuration Ex 20.2 Q2

Answer :

Perimeter of a square = $4 \times$ (Length of one side)

(i) Length of one side = 10 cm

Perimeter = $4 \times 10 = 40$ cm

(ii) Length of one side = 5 m

Perimeter = $4 \times 5 = 20$ m

(iii) Length of one side = 115.5 cm

Perimeter = $4 \times 115.5 = 462$ cm

Mensuration Ex 20.2 Q3

Answer :

Side of a square = $\frac{Perimeter}{4}$

(i) Perimeter = 16 m

$\therefore$ Side of this square = $\frac{16}{4}$ = 4 m

(ii) Perimeter = 40 cm

$\therefore$ Side of this square = $\frac{40}{4}$ = 10 cm

(iii) Perimeter = 22 cm

$\therefore$ Side of this square = $\frac{22}{4}$ = 5. 5cm

Mensuration Ex 20.2 Q4

Answer :

Perimeter of a rectangle = 2 (Length + Breadth)

$\therefore$ Breadth of the rectangle = $\frac{\text{Perimeter}}{2}$ − Length

(i)

Perimeter = 360 cm

Length = 116 cm

$\therefore$ Breadth = $\frac{360}{2} - 116$ = 180 −116 = 64 cm

(ii)

Perimeter = 360 cm

Length = 140 cm

$\therefore$ Breadth = $\frac{360}{2} - 140$ = 180 −140 = 40 cm

(iii)

Perimeter = 360 cm

Length = 102 cm

Breadth = $\frac{360}{2} - 102$ = 180 − 102 = 78 cm

Mensuration Ex 20.2 Q5

Answer :

Length of the lawn = 98 m
Breadth of the lawn = 55 m
Length of the fence around the lawn = Perimeter of the lawn = 2 × (Length + Breadth)
Perimeter of the lawn = 2 × (98 + 55) m = 2 ×(153) = 306 m
Thus, the length of the fence around the lawn = 306 m

Mensuration Ex 20.2 Q6

Answer :

Side of the square field = 65 m
Length of the fence around the square field = Perimeter of the square field = 4 × (Side of the square)
Perimeter of the square field = 4 × 65 = 260 m
Thus, the length of the fence around the square filed = 260 m

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