

Mensuration Ex 20.2 Q1

Answer:

- (i) Perimeter of a rectangle = $2 \times (Length + Breadth)$
 - :: Length = 7 cm, Breadth = 5 cm
 - ... Perimeter = $2 \times (7 + 5) = 2 \times (12) = 24$ cm
- (ii) Perimeter of a rectangle = 2 × (Length + Breadth)
 - :: Length = 5 cm, Breadth = 4 cm
 - :. Perimeter = $2 \times (5 + 4) = 2 \times (9) = 18 \text{ cm}$
- (iii) Perimeter of a rectangle = $2 \times (Length + Breadth)$
 - :: Length = 7.5 cm, Breadth = 4.5 cm
 - : 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 × 10 = 40 cm
- (ii) Length of one side = 5 m Perimeter = 4 × 5 = 20 m
- (iii) Length of one side = 115.5 cm Perimeter = 4 × 115.5 = 462 cm

Mensuration Ex 20.2 Q3

Answer:

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

(i) Perimeter = 16 m

: 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

: 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

:. Breadth =
$$\frac{360}{2} - 116 = 180 - 116 = 64$$
 cm

(ii)

Perimeter = 360 cm

Length = 140 cm

:. Breadth =
$$\frac{360}{2}$$
 - 140 = 180 - 140 = 40 cm

(iii)

Perimeter = 360 cm

Length = 102 cm

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

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 \times (Length + Breadth) Perimeter of the lawn = 2 \times (98 + 55) m = 2 \times (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 mLength of the fence around the square field = Perimeter of the square field = $4 \times (\text{Side of the square})$ Perimeter of the square field = $4 \times 65 = 260 \text{ m}$ Thus, the length of the fence around the square filed = 260 m

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