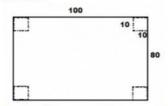


Mensuration I Ex 20.2 Q4

Answer:

We have,



Length of the rectangular sheet = 100 cm

Breadth of the rectangular sheet = 80 cm

Area of the rectangular sheet of tin = $100 \text{ cm x } 80 \text{ cm} = 8000 \text{ cm}^2$

Side of the square at the corner of the sheet = 10 cm

Area of one square at the corner of the sheet = $(10 \text{ cm})^2 = 100 \text{ cm}^2$

 \therefore Area of 4 squares at the corner of the sheet = 4 x 100 cm² = 400 cm² Hence.

Area of the remaining sheet of tin =Area of the rectangular sheet – Area of the 4 squares Area of the remaining sheet of tin = $(8000 - 400) \text{ cm}^2$

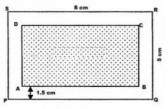
 $= 7600 \text{ cm}^2$

Mensuration I Ex 20.2 Q5

Answer:

We have

Length of the cardboard = 8 cm and breadth of the cardboard = 5 cm



 \therefore Area of the cardboard including the margin = 8 cm x 5 cm = 40 cm²

From the figure, it can be observed that,

New length of the painting when the margin is not included = 8 cm - (1.5 cm + 1.5 cm) = (8 - 3) cm = 5 cm

New breadth of the painting when the margin is not included = 5 cm - (1.5 cm + 1.5 cm) = (5 - 3) cm = 2 cm

 \therefore Area of the painting not including the margin = 5 cm x 2 cm = 10 cm² Hence.

Area of the margin = Area of the cardboard including the margin – Area of the painting

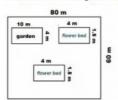
$$= (40 - 10) \text{ cm}^2$$

= 30 cm²

Mensuration I Ex 20.2 Q6

Answer:

Length of the rectangular field = 80 m Breadth of the rectangular field = 60 m



∴ Area of the rectangular field = 80 m x 60= 4800 m^2

Again,

Area of the garden = $10 \text{ m x } 4 \text{ m} = 40 \text{ m}^2$

Area of one flower bed = $4 \text{ m} \times 1.5 \text{ m} = 6 \text{ m}^2$

Thus

Area of two flower beds = $2 \times 6 \text{ m}^2$ = 12 m^2

Remaining area of the field for applying manure = Area of the rectangular field – (Area of the garden + Area of the two flower beds)

Remaining area of the field for applying manure = 4800 m² – (40 + 12) m² = (4800 – 52)m² = 4748 m²

Since $100 \text{ m}^2 = 1 \text{ are}$ $\therefore 4748 \text{ m}^2 = 47.48 \text{ ares}$

So, cost of applying manure at the rate of Rs. 300 per are will be Rs. (300 x 47.48) = Rs. 14244

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