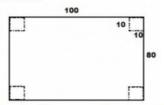


## Mensuration I Ex 20.2 Q4

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 cm<sup>2</sup> = 400 cm<sup>2</sup> 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 =  $(8000 - 400) \text{ cm}^2$ 

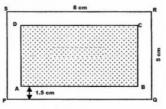
 $= 7600 \text{ cm}^2$ 

## 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 cm<sup>2</sup>

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 cm<sup>2</sup> Hence.

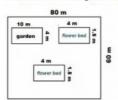
Area of the margin = Area of the cardboard including the margin – Area of the painting

$$= (40 - 10) \text{ cm}^2$$
  
= 30 cm<sup>2</sup>

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=  $4800 \text{ m}^2$ 

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 =  $2 \times 6 \text{ m}^2$  =  $12 \text{ m}^2$ 

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 \*\*\*\*\*\*\*