Mensuration I Ex 20.1 Q4

Answer :

We have,

(i) Length of the rectangular field = 200 m

Breadth of the rectangular field = 125 m

Therefore,

Area of the rectangular field = Length x Breadth

= 200 m x 125 m

= 25000 m^2 = 250 ares [Since 100 m^2 = 1 are]

(ii) Length of the rectangular field =75 m 5 dm = (75 + 0.5) m = 75.5 m [Since 1 dm = 10 cm = 0.1 m]

Breadth of the rectangular field = 120 m

Therefore,

Area of the rectangular field = Length x Breadth

= 75.5 m x 120 m

= 9060 m^2 = 90.6 ares [Since 100 m^2 = 1 are]

Mensuration I Ex 20.1 Q5

Answer :

We have,

(i) Length of the rectangular field = 125 m

Breadth of the rectangular field = 400 m

Therefore,

Area of the rectangular field = Length x Breadth

= 125 m x 400 m

= 50000 m^2 = 5 hectares [Since 10000 m^2 = 1 hectare]

(ii) Length of the rectangular field =75 m 5 dm = (75 + 0.5) m = 75.5 m [Since 1 dm = 10 cm = 0.1 m]

Breadth of the rectangular field = 120 m

Therefore,

Area of the rectangular field = Length x Breadth

= 75.5 m x 120 m

= 9060 m^2 = 0.906 hectares [Since 10000 m^2 = 1 hectare]

Mensuration I Ex 20.1 Q6

Answer :

We have,

Length of the door = 3 m

Breadth of the door = 2 m

Side of the wall = 10 m

Area of the wall = Side x Side = 10 m x 10 m = 100 m^2

Area of the door = Length x Breadth = 3 m x 2 m = 6 m^2

Thus,

Required area of the wall for painting = Area of the wall − Area of the door = (100 − 6) m^2 = 94 m^2

Rate of painting per square metre = Rs. 2.50

Hence, the cost of painting the wall = Rs. (94 x 2.50) = Rs. 235

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