Mensuration I Ex 20.1 Q10

Answer :

We have,

Length of the table top = 9 dm 5 cm = (9 x 10 + 5) cm = 95 cm [Since 1 dm = 10 cm]

Breadth of the table top = 6 dm 5 cm = (6 x 10 + 5) cm = 65 cm

∴ Area of the table top = Length x Breadth = (95 cm x 65 cm) = 6175 cm^2

Rate of polishing per square centimetre = 20 paise = Rs. 0.20

Total cost = Rs. (6175 x 0.20) = Rs. 1235

Mensuration I Ex 20.1 Q11

Answer :

We have,

Length of the floor of the room = 9.68 m

Breadth of the floor of the room = 6.2 m

Area of the floor = 9.68 m x 6.2 m = 60.016 m^2

Length of the tile = 22 cm

Breadth of the tile = 10 cm

Area of one tile = 22 cm x 10 cm = 220 cm^2 = 0.022 m^2 [Since 1 m^2 = 10000 cm^2]

Thus,

Number of tiles = $\frac{60.016\ \mathbf{m^2}}{0.022\ \mathbf{m^2}} = 2728$

Cost of one tile = Rs. 2.50

Total cost = Number of tiles x Cost of one tile

= Rs. (2728 x 2.50) = Rs. 6820

Mensuration I Ex 20.1 Q12

Answer :

We have,

Side of the square field = 179 m

Area of the field = $(Side)^2$ = $(179\ m)^2$ = 32041 m^2

Rate of raising a lawn on the field per square metre = Rs. 1.50

Thus,

Total cost of raising a lawn on the field = Rs.(32041 x 1.50) = Rs. 48061.50

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