Chapter – 10

Mensuration

Worksheet – 3

1. A rectangular card has length of 6 m and breadth 5 m, what is its area?
   a. 28 m^2
   b. 30 m^2
   c. 32 m^2
   d. 36 m^2
2. A wall has base of 10 m and height 8 m, what is the area of the wall?
   a. 28 m^2
   b. 80 m^2
   c. 40 m^2
   d. 60 m^2
3. How much paper (in m^2) is required to cover a wall with a base 10 m and height 12 m?
   a. 120 m^2
   b. 180 m^2
   c. 140 m^2
   d. 160 m^2
4. A rectangular cloth one side is 3 m 50 cm long and other side is 2 m 25 cm long. What is the area of one side of the cloth?
   a. 7.875 m^2
   b. 8.875 m^2
   c. 9.875 m^2
   d. 10.875 m^2
5. A rectangular cloth one side is 4 m 15 cm long and other side is 3 m 75 cm long. What is the area of one side of the cloth?
   e. 31.125 m^2
   f. 15.5625 m^2
   g. 18.714 m^2
   h. 20.470 m^2
6. Find out the length of the wooden strip required to frame a photograph of length and breadth 30 cm and 20 cm respectively?
   a. 1 m 12 cm

b. 1 m 6 cm

c. 1 m 8 cm

d. 100 cm

7. A rectangular piece of land needs to be marked with a line of white paint. If the length and breadth of land are 20 m and 8 m, then what should be the length of the paint line?

a. 50 m

b. 56 m

c. 52 m

d. 55 m

8. A rectangular piece of land needs to be fenced with 3 rows of wire. If length and breadth of land are 15 m 10 cm and 14 m 7 cm, then how much total wire would be required?

a. 178.05 m^2

b. 90.4 m^2

c. 175.02 m^2

d. 96.4 m^2

9. Find the sum of area of square side 12 m and a rectangle of side 16 m and 14 m respectively?

a. 368 m^2

b. 370 m^2

c. 380 m^2

d. 382 m^2

10. A rectangular golden metal plate of sides 80 cm and 20 cm respectively, is melted to make a square plate. What will be the side of the square plate?

a. 20 cm

b. 40 cm

c. 60 cm

d. 80 cm

11. Find the length of perpendicular of an equilateral triangle whose area is 48 m^2 and one side is 12 m long?

12. Find the sum of perimeter of a square and regular hexagon, in which length of one side of square is 22 m and of hexagon is 18 m?

13. The perimeter of a regular pentagon is 1225 m. How long is its each side in kilometers (km)?

14. Rakesh has 1800 m of readymade boundary wall. What will be the side of one side of the ground if shape of the ground he covers it with is a:

a. Square

b. An equilateral triangle

c. A regular pentagon

15. Two sides of a triangle are 21 cm and 27 cm, the perimeter of the triangle is 70 cm. What is the length of the third side of the tringle?

16. A rectangular path of length 5 m and width 3 m needs to be paved around a rectangular ground of sides 16 m and 14 m long respectively. What is the total area of the ground along with the rectangular path?

17. Cost of planting saplings is ₹5 per metre square. If the length and breadth of a field are 26 m and 20 m, then how much money is needed to plant saplings on the entire field?

18. Find the cost of grazing a grassland at the cost of ₹18 per metre square if length and width of the wall are 50 m and 45 m respectively?

19. A boundary wall needs to be constructed around a square ground which has a side of 50 m. If the width of the wall is 70 cm, find the cost of constructing the wall at ₹12 per metre square?

20. Ashish buys 12 square paving slabs, each with a side of 80 cm. If he lays them in the form of a square, then what will be the perimeter of paved space?