Area and Perimeter, & Volume

Objective Type

1. The amount of surface occupied by a figure is given by its ______________.
2. The amount of space occupied by a solid is called its ______________.
3. The distance around a closed figure is called its ______________.
4. Area is expressed in ______________ units.
5. Volume is expressed in ______________ units.
6. The area of a square of side 1 cm is ______________.
7. The volume of cube of edge 1 m is ______________.
8. The perimeter of a square of side 1 cm is ______________.
9. Area of rectangle = ______________ x breadth.
10. Volume of cuboid = length x breadth x ______________.
11. sq. m and sq. cm are units of measuring ______________.
12. The measure of inner space of a hollow solid is called its ______________.
13. The formula used to find the perimeter of rectangle is ______________.
14. All sides of a square are ______________ in length.
15. Area of a square = ______________ x ______________.
16. Volume of a cube = ______________ x ______________ x ______________
17. A ______________ is a special kind of rectangle whose length and breadth are equal.
18. A _______________ is a special cuboid whose length, breadth and height are equal.

19. Cubic meter and cubic centimeter are units of measuring ______________.

20. Perimeter of a rectangle = 2 x (______________ + breadth)

21. Perimeter is the _______________ of all sides.

22. Perimeter of a square = 4  x _______________

23. The _______________ of a figure is the number of times the unit square is continued in the figure.

24. 4 x side gives the ______________ of a square.

25. Length x breadth gives the ______________ of a rectangle.

26. The perimeter of square of side 10 m is ______________.

27. The area of rectangle with length 12 cm and breadth 8 cm is ______________.

28. The area of a square of side 15 cm is ______________.

29. The perimeter of rectangle with length 10 cm and 5 m is ______________.

30. The volume of cube of edge 5 cm is ______________.

31. The volume of a cuboid with length 5m, breadth 4m and height 2m is ______________.

32. An empty box and full box of same size and shape have ______________ volume.

33. The perimeter of a triangle with side 5cm, 8 cm and 7 cm is ______________.

II  Subjective Type questions :

1. Find the area of the square with

   a. Side = 9 cm
   b. Side = 12 m
   c. side = 6.5 cm
2. Find the area of rectangle with
   a) $\ell = 15$ cm $b = 8$ cm
   b) $\ell = 2.5$ m $b = 6$ m
   c) $\ell = 2$ cm $b = 1.5$ cm

3. Find the perimeter of the following shapes

4. Find the perimeter of a square whose
   a) side = 12 cm
   b) side = 16.5 m

5. Find the perimeter of rectangle whose
   a) $\ell = 14.7$ m $b = 2.5$ cm
   b) $\ell = 24$ cm $b = 16$ cm
   c) $\ell = 7.5$ cm $b = 2.5$ cm

6. Find volume of a cube of side
   a) 8 cm
   b) 10 cm
   c) 16 m
7. Find the volume of a cuboid with

a) \( \ell = 14 \text{ cm} \quad b = 10 \text{ cm} \quad h = 8 \text{ cm} \)

b) \( \ell = 4.5 \text{ cm} \quad b = 2 \text{ m} \quad h = 1.5 \text{ m} \)

c) \( \ell = 15 \text{ cm} \quad b = 7.5 \text{ m} \quad h = 8.5 \text{ m} \)

8. Find the missing dimension in the following cuboid.

a. \( V = 2400 \text{ cu cm} \)
   \( \ell = 80 \text{ cm} \)
   \( b = 6 \text{ cm} \)
   \( h = ? \)

b. \( V = 792 \text{ cm}^3 \)
   \( \ell = 12 \text{ cm} \)
   \( b = ? \)
   \( h = 6 \text{ cm} \)

c. \( V = 112 \text{ m}^3 \)
   \( \ell = ? \)
   \( b = 3.5 \text{ m} \)
   \( h = 2 \text{ m} \)

9. The length and breadth of the floor of a room are 12 m and 7.5 m. Find the area of a carpet which is to be spread on the floor.

10. A rectangular field is 625 m long 200 m broad. Find the perimeter of the field in km.
11. A square park has a side of 60 m. Find the total distance you cover in jogging around it 5 times.

12. The length, breadth and height of a brick are 10 cm, 12 cm and 8 cm respectively. Find the volume one brick and 10 such bricks.

13. A fish tank is 70 cm long, 40 cm wide and 30 cm high. Find the volume of the fish tank.

14. The edge of a cubical box is 30 cm. Find its volume.