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## 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 =  $2 \times (\text{_____} + \text{breadth})$
21. Perimeter is the \_\_\_\_\_ of all sides.
22. Perimeter of a square =  $4 \times \text{_____}$
23. The \_\_\_\_\_ of a figure is the number of times the unit square is continued in the figure.
24.  $4 \times \text{side}$  gives the \_\_\_\_\_ of a square.
25. Length  $\times$  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 \_\_\_\_\_.

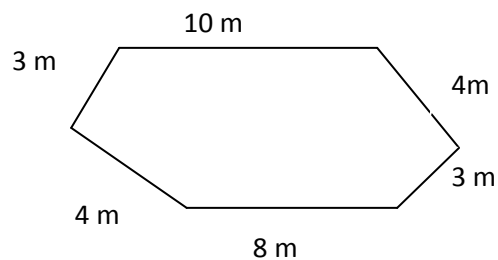
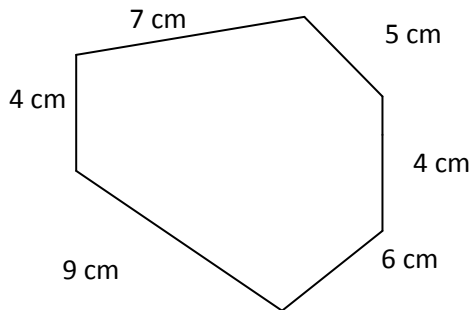
II Subjective Type questions :

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)  $\ell = 15 \text{ cm}$        $b = 8 \text{ cm}$
- b)  $\ell = 2.5 \text{ m}$        $b = 6 \text{ m}$
- c)  $\ell = 2 \text{ cm}$        $b = 1.5 \text{ cm}$

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)  $\ell = 14.7 \text{ m}$        $b = 2.5 \text{ cm}$
- b)  $\ell = 24 \text{ cm}$        $b = 16 \text{ cm}$
- c)  $\ell = 7.5 \text{ cm}$        $b = 2.5 \text{ cm}$

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)  $l = 14 \text{ cm}$   $b = 10 \text{ cm}$   $h = 8 \text{ cm}$
  - b)  $l = 4.5 \text{ cm}$   $b = 2 \text{ m}$   $h = 1.5 \text{ m}$
  - c)  $l = 15 \text{ cm}$   $b = 7.5 \text{ m}$   $h = 8.5 \text{ m}$
8. Find the missing dimension in the following cuboid.
- a.  $V = 2400 \text{ cu cm}$   
 $l = 80 \text{ cm}$   
 $b = 6 \text{ cm}$   
 $h = ?$
  - b.  $V = 792 \text{ cm}^3$   
 $l = 12 \text{ cm}$   
 $b = ?$   
 $h = 6 \text{ cm}$
  - c.  $V = 112 \text{ m}^3$   
 $l = ?$   
 $b = 3.5 \text{ m}$   
 $h = 2 \text{ m}$
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.