

Class 5 Maths**Perimeter, Area and Volume – Mental Problems**

1. _____ is the space occupied by a 3-D figure.
2. _____ is the distance around a figure.
3. Area of rectangle is _____.
4. Perimeter of an equilateral triangle is _____.
5. Unit of area is represented as _____.
6. Unit of volume is represented as _____.
7. _____ is the space occupied by the boundary of a plane figure.
8. Find the area of a square park whose side is 18cm.
9. Volume of cube = _____.
10. Volume of cuboid = _____.
11. Standard unit of mass is _____.
12. Standard unit of length is _____.
13. Standard unit of capacity is _____.
14. Side of a square, if perimeter is given
_____.
15. Side of a square, if area is given
_____.

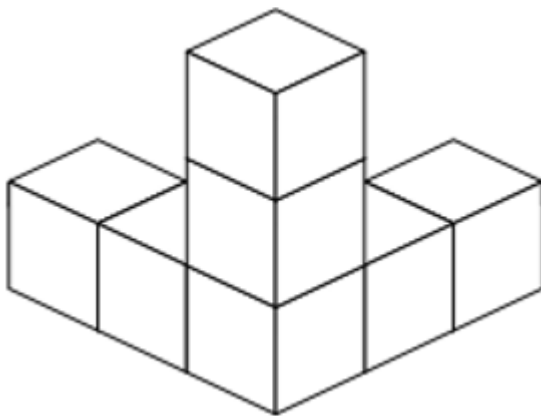
16. Length of a rectangle, if perimeter is given

_____.

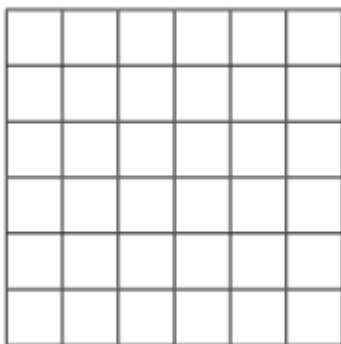
17. Breadth of a rectangle, if perimeter is given

_____.

18. Count the cubes and find the volume: Assume the volume of each cube as 1cm^3 .



19. Find the area of the following figure. Assume the area of each square to be 1cm^2 .



20. Perimeter of a pentagon whose sides are equal in length = _____.

Answers

1. Volume is the space occupied by a 3-D figure.
2. Perimeter is the distance around a figure.
3. Area of rectangle is Length \times Breadth (L \times B).
4. Perimeter of an equilateral triangle is 3 \times side.
5. Unit of area is represented as square units (cm², m²).
6. Unit of volume is represented as cubic units (cm³, m³).
7. Area is the space occupied by the boundary of a plane figure.
8. Area of square park (side = 18 cm)
Area = side \times side
= 18 \times 18
= 324 cm²
9. Volume of cube = side \times side \times side (side³).
10. Volume of cuboid = Length \times Breadth \times Height (L \times B \times H).
11. Standard unit of mass is kilogram (kg).
12. Standard unit of length is metre (m).
13. Standard unit of capacity is litre (L).
14. Side of a square, if perimeter is given
Side = Perimeter \div 4
15. Side of a square, if area is given, Side = $\sqrt{\text{Area}}$
16. Length of a rectangle, if perimeter is given
Length = (Perimeter \div 2) – Breadth
17. Breadth of a rectangle, if perimeter is given
Breadth = (Perimeter \div 2) – Length
18. Volume = Number of cubes \times 1 cm³
(Count the cubes in the figure and multiply by 1 cm³.)
19. Area = Number of squares \times 1 cm²
(Count the squares in the figure.)

**20. Perimeter of a pentagon whose sides are equal in length
= $5 \times \text{side}$**

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