

CBSE Class 8 Mathematics

Revision Notes

Chapter – 11

Mensuration

- **Perimeter:** Length of boundary of a simple closed figure.

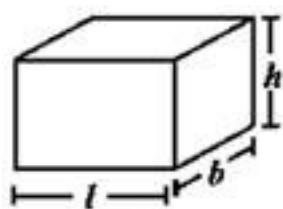
Perimeter of:

$$\text{Rectangle} = 2(l + b)$$

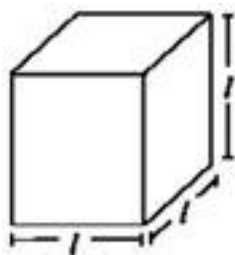
$$\text{Square} = 4a$$

$$\text{Parallelogram} = 2(\text{sum of two adjacent sides})$$

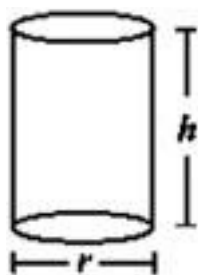
- **Area:** The measure of region enclosed in a simple closed figure.
- Area of a trapezium = half of the sum of the lengths of parallel sides \times perpendicular distance between them.
- Area of a rhombus = half the product of its diagonals.
- Triangle = $\frac{1}{2} \times \text{base} \times \text{height}$
- **Diagonal of:**
Rectangle = $\sqrt{l^2 + b^2}$
Square = $\sqrt{2a}$
- **Surface area** of a solid is the sum of the areas of its faces.
- **Surface area of:**



$$\text{a cuboid} = 2(lb + bh + hl)$$



$$\text{a cube} = 6l^2$$



a cylinder = $2\pi r(r + h)$

- Amount of region occupied by a solid is called its **volume**.

- Volume of

a cuboid = $l \times b \times h$

a cube = l^3

a cylinder = $\pi r^2 h$

- (i) $1 \text{ cm}^3 = 1 \text{ ml}$
- (ii) $1 \text{ L} = 1000 \text{ cm}^3$
- (iii) $1 \text{ m}^3 = 1000000 \text{ cm}^3 = 1000 \text{ L}$