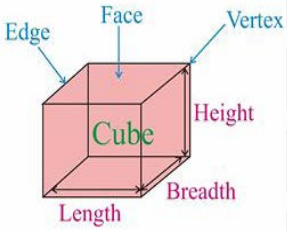
Volume

Volume of a Cube

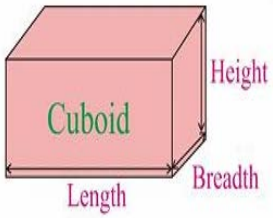
A cube is a three-dimensional box-like figure represented in the three-dimensional plane. A cube has 66 square-shaped equal faces.



The volume of a cube is equal to the product of the edge length three times.

Volume of a Cuboid

A cuboid is a three-dimensional box-like figure represented in the three-dimensional plane.



The volume of a cuboid is obtained by multiplying the length, breadth, and height.

Determining Volume by Calculation

Volume of Cube = Side × Side × Side

Volume of Cuboid = Length × Breadth × Height

Let us understand with some examples:

Example 1: Find the volume of a cuboid of length 20cm, breadth 12cm, height 10cm.

Solution:

Given: length = 20cm, breadth = 12cm, height = 10cm.

Volume of a Cuboid = length × breadth × height

$\Rightarrow V = 20 \times 12 \times 10$

$\Rightarrow V = 2400cm^3$

Volume

Example 2: Find the volume of a cube whose edge is 11 cm.

Solution:

Given: Length of an edge of the cube = 11 cm

Now, volume of the cube = edge × edge × edge

= 11 cm × 11 cm × 11 cm

= 1331 cm^3.