Decimeter Cube

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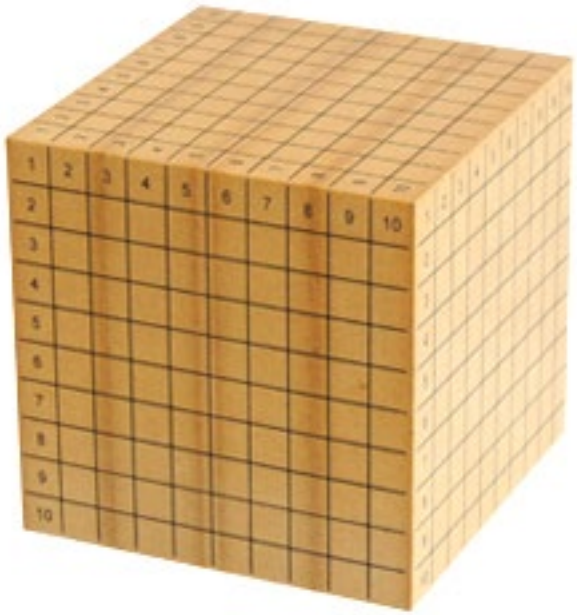


Description

Wooden cube of size 10cm, made of hardwood, precisely cut and finished, having a total volume of 1dm^3 or 1000cm^3 or 1 liter. Each face of the cube has a square grid of 10x10, total 100 squares of 1cm each. 1st row and 1st column of grid on each face marked 1 to 10.

Density

A cubic decimetre (or litre) occupies a volume of 10 cm × 10 cm × 10 cm and is thus equal to one-thousandth of a cubic metre.

A litre is a cubic decimetre, which is the volume of a cube 10 centimetres × 10 centimetres × 10 centimetres (1 L ≡ 1 dm^3 ≡ 1000 cm^3). Hence 1 L ≡ 0.001 m^3 ≡ 1000 cm^3; and 1 m^3 (i.e. a cubic metre, which is the SI unit for volume) is exactly 1000 L.

Volume

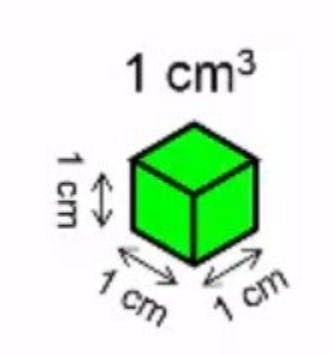
Volume refers to the amount of space an object occupies or the capacity of a container.

Cubic Centimeter

$1cm^3$ refers to the space occupies by a cube with

1. A length of 1cm
2. A width of 1 cm
3. A height of 1 cm

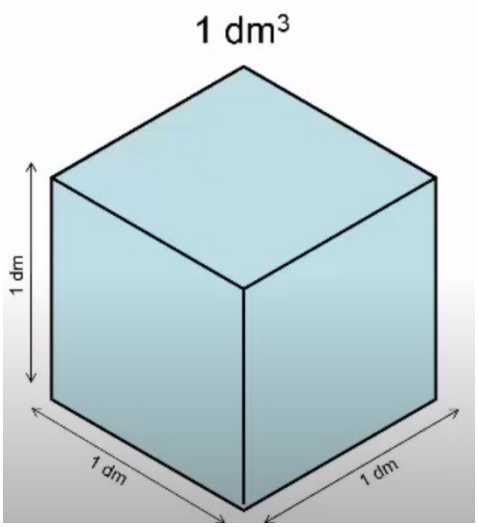
Hence, $1cm^3$ = 1 cm x 1 cm x 1 cm
Similarly, $1dm^3$ = 1 dm x 1 dm x 1 dm



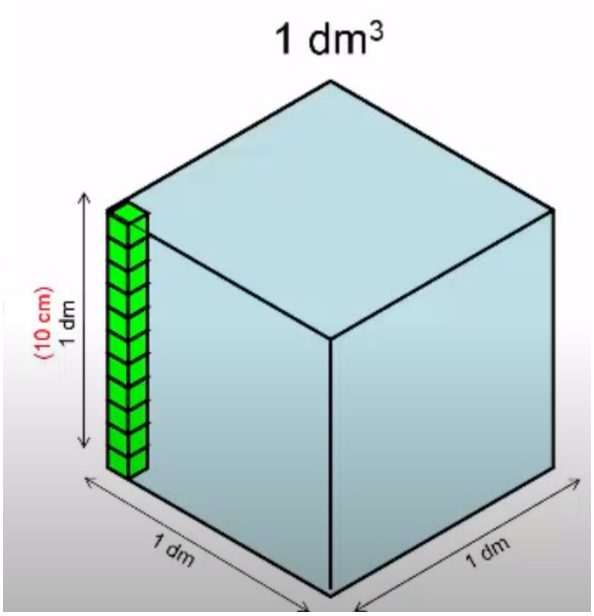
Measure volume using liters.

1 liter equals 1 cubic decimeter

- $1dm^3$ = 1 dm x 1 dm x 1 dm

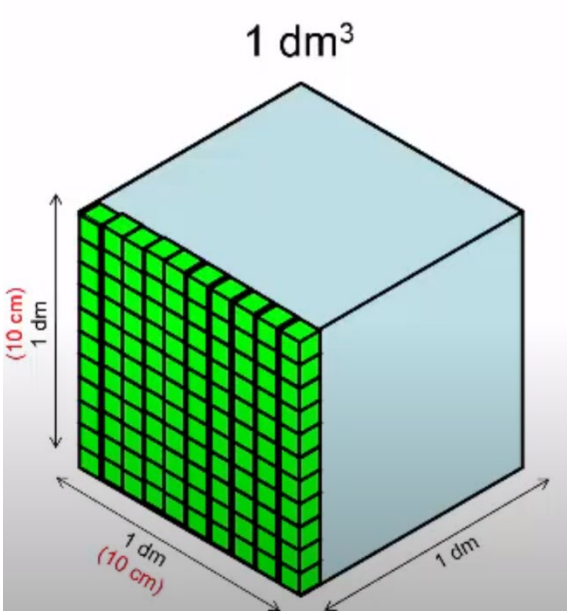


- $1dm^3$ = 10 cm x 1 dm x 1 dm

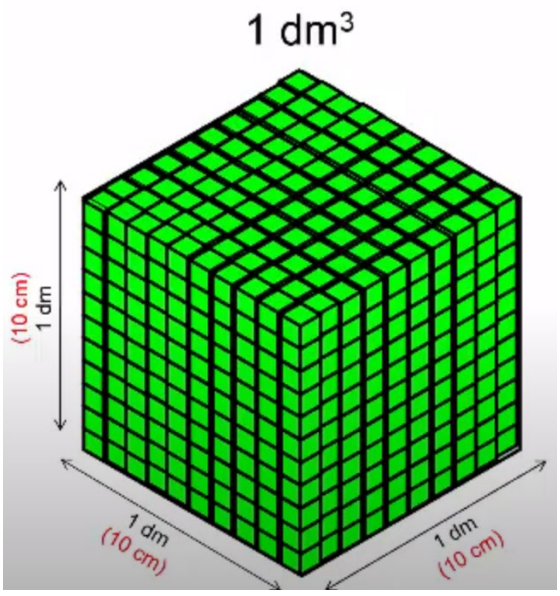


- $1dm^3$ = 10 cm x 10 cm x 1 dm

Decimeter cube QLB016



- $1dm^3$ = 10 cm x 10 cm x 10 cm



$1dm^3 = (1\ dm)^3 = (10\ cm)^3 = 103\ cm^3$

Decimeter cube QLB016

1 dm^3 = 1000 cm^3