

VOLUME



the amount of space
matter takes up

mL
L

< cm^3
 m^3
 mm^3
 km^3

FIND VOLUME? ① Measure it using
a graduated
cylinder or beaker

② measure it
using water
displacement

③ Calculate it

* $V = l \cdot w \cdot h$
length width height




$$V_{\text{cylinder}} = \pi r^2 \cdot h$$

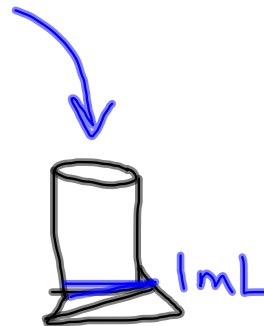
$$1 \text{cm}^3 = 1 \text{mL}$$

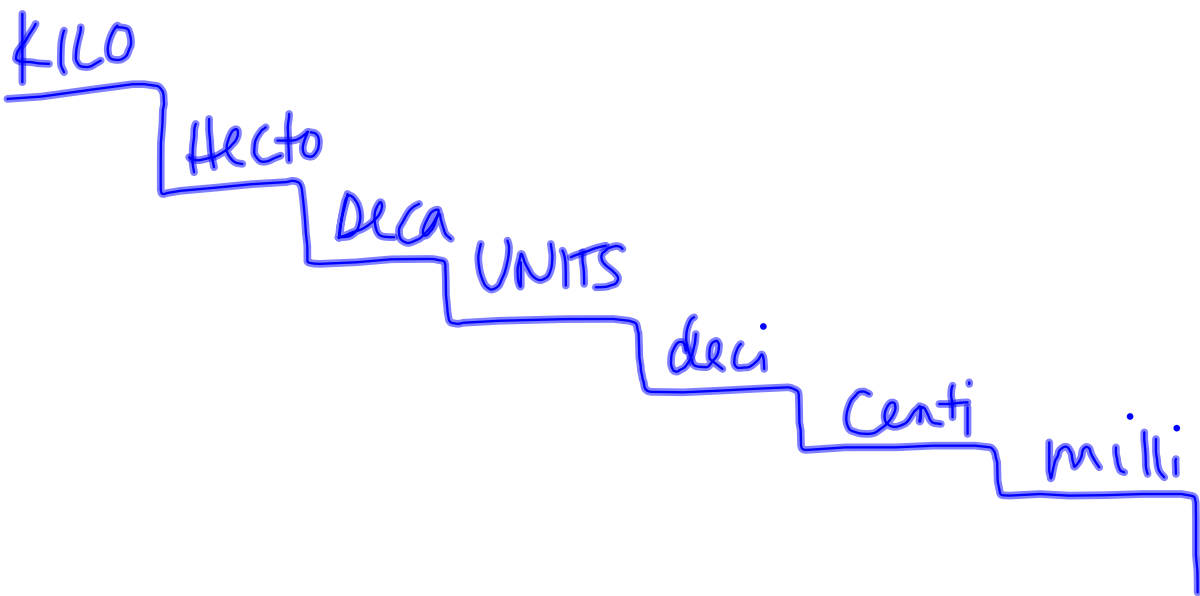
1cm  length

1cm²  area

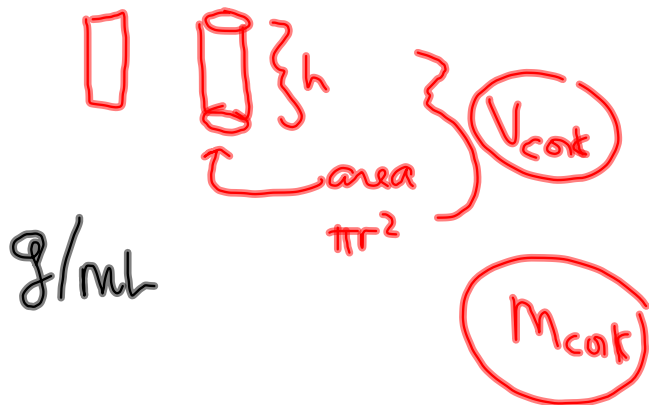
* 1cm³  volume

1cm³ = 1mL



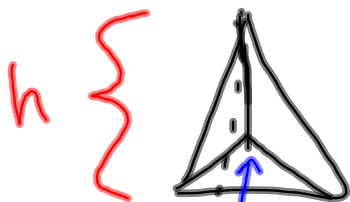
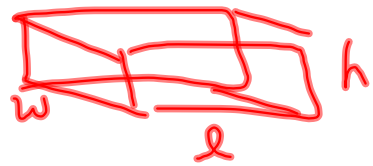


$$D = \frac{\text{Mass}}{\text{Volume}} = \frac{\text{Amount of matter in an object}}{\text{Amount of space the object takes up}}$$



$$m = D \cdot V$$

$$D = \frac{\text{amount of matter in an object}}{\text{amount of space the object takes up}}$$



area = $\frac{1}{2}bh$