Learning Objectives:

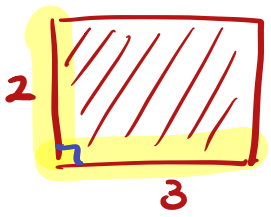
Understand what it means by the word volume

Understand the difference between volume and capacity

Be able to convert between units for volume and capacity

Be able to find the volume of rectangular prisms

Area =



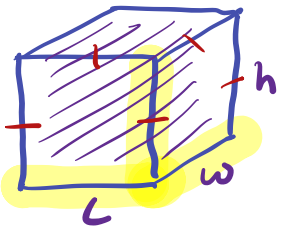
Area = 2×3

$= 6 \text{ units}^2$

"2D"

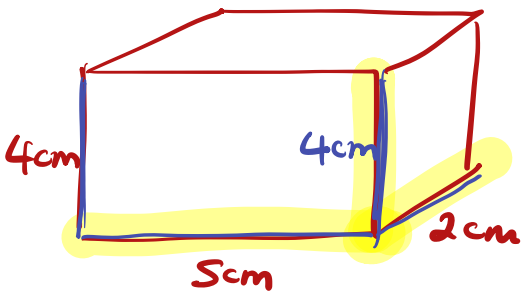
Volume

3D.



Volume = $L \times w \times h$

eg



Volume = $5 \times 4 \times 2$

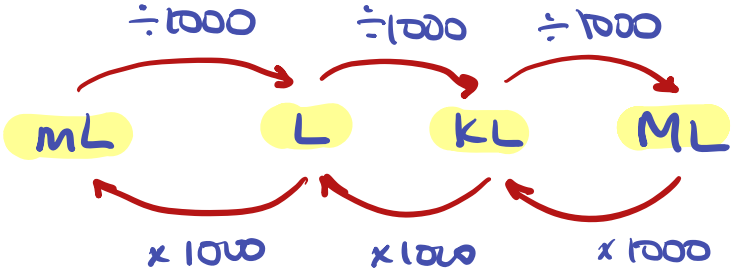
$= 20 \times 2$

$= 40 \text{ cm}^3$

(40mL)

Volume mm^3 cm^3 m^3 Km^3

Capacity



Conversions !

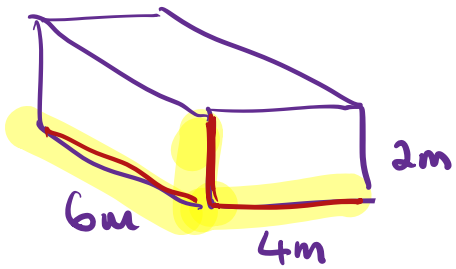
$1mL = 1cm^3$

$1L = 1000mL$

$1kL = 1000L = 1m^3$

Cap → Volume → then convert.

Volume Example

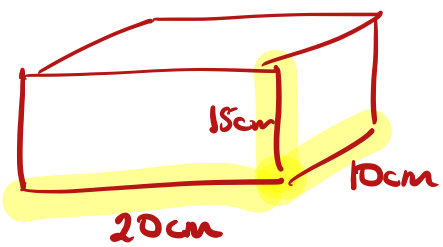
① 

Volume $= 2 \times 4 \times 6$

$= 8 \times 6$

$= 48m^3$

② Capacity in litres



Volume $= 20 \times 10 \times 15$

$= 200 \times 15$

$= 3000cm^3$

Capacity $= 3000mL$ $\quad 1000mL = 1L$

$= 3L$