# <u>A review from grade 6: Volume of rectangular prisms</u>

The measurement of "Volume" means the quantity that you can put in a 3-D shape. It is measured in unit<sup>3</sup> (cubed).

## <u> Formula :</u>

Volume = Area of the base x height = A Base x height

**Example 1** Find the volume of this shape.

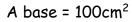
ABase = length x width

Volume = (Area of the base) x height = length x width x height

#### Example 2

The area of the base of a small box is 100cm<sup>3</sup>. The height of the box is 9cm. Find the volume of the box.





Volume = (Area of the base) x height = 100 x 9

- 100 x 9

= 900 cm<sup>3</sup>

# Example 3 - Find the volume (when the area isn't given)

Volume = (Area of the base) x height = length x width x height =  $3.2 \times 7.5 \times 4$ =  $96 \text{ cm}^3$ 4.0 cm 3.2 cm7.5 cm



## <u> Practise – volume</u>

1. Find the volume of the rectangular prisms when the area of the base is given. SHOW your work.  $V = Abase \times height$ 



2. Find the volume of the rectangular and SHOW your work.  $V = I \times w \times h$ 

