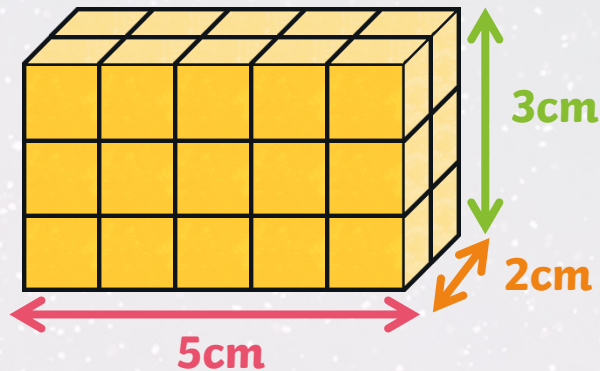


Aim

L.O: To calculate volume.

Volume is how we measure the amount of space something takes up.

This shape is made of 1cm^3 blocks:



How long is it?

5cm

How wide is it?

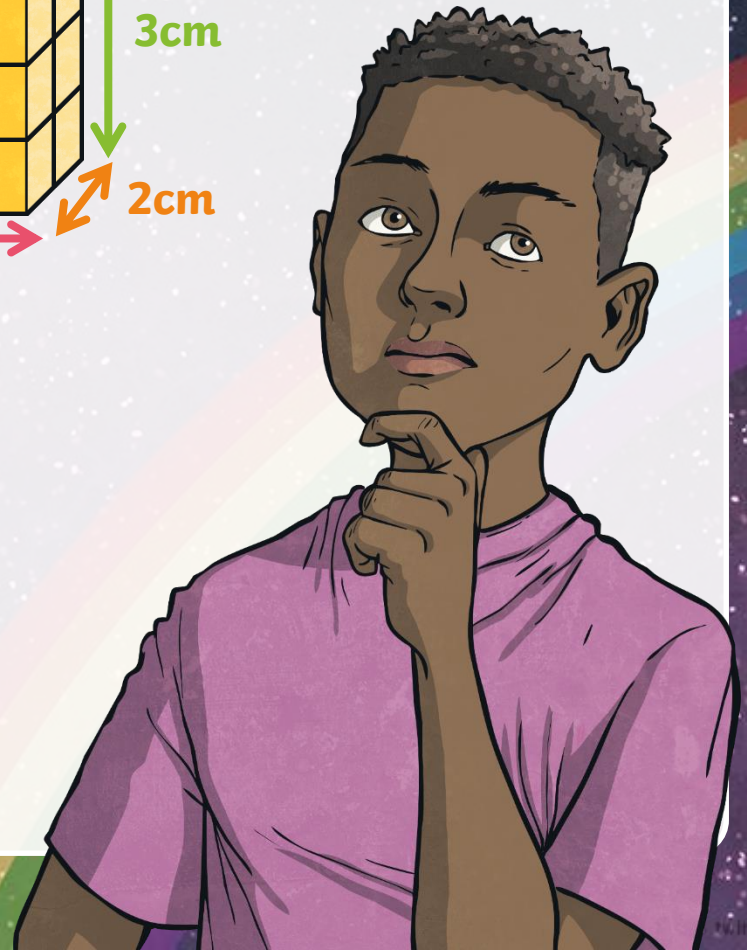
2cm

How tall is it?

3cm

What is its volume?

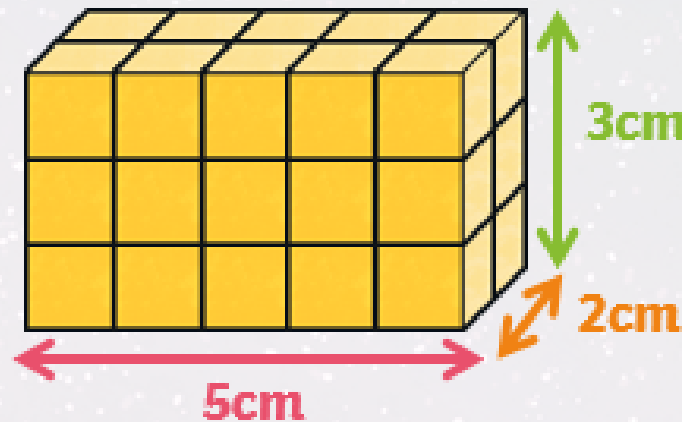
30cm^3



L.O: To calculate volume

We measure volume using cm^3

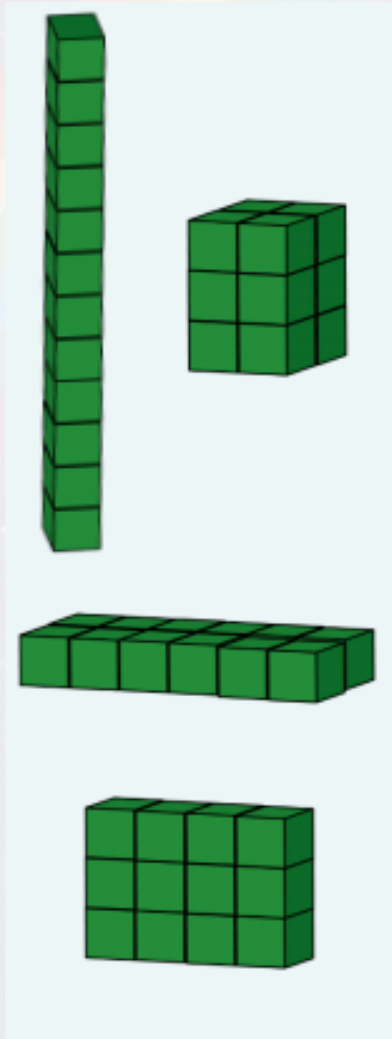
To find the volume of a cuboid we multiply the height, length and width.



$$3 \times 2 \times 5 = 30\text{cm}^3$$

This shape is made of 30 cubes

L.O: To calculate volume



These shapes all have a volume of 12cm^3

For each cuboid, multiply the height, length and width.

Match the cuboid with the correct number sentence

$$1 \times 2 \times 6 = 12\text{cm}^3$$

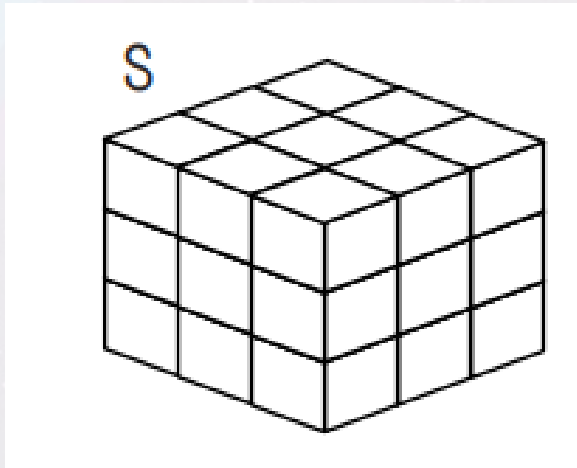
$$3 \times 2 \times 2 = 12\text{cm}^3$$

$$12 \times 1 \times 1 = 12\text{cm}^3$$

$$3 \times 1 \times 4 = 12\text{cm}^3$$

L.O: To calculate volume

In some situations you can often you can count the cubes used to create the cuboid to check you answer.

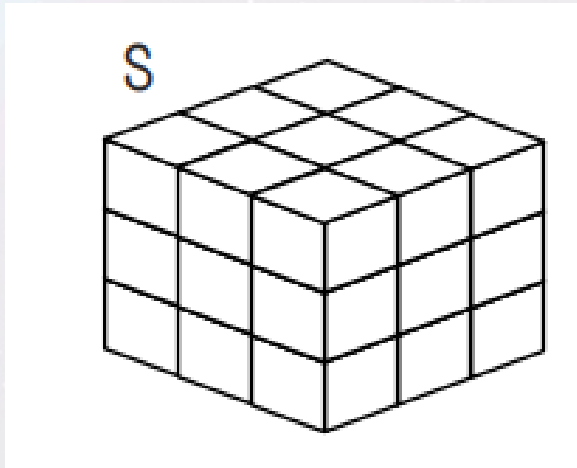


What is the volume of cuboid S?

Remember – height x length x width

L.O: To calculate volume

In some situations you can often you can count the cubes used to create the cuboid to check you answer.



What is the volume of cuboid S?

Remember:
height x length x width

$$3 \times 3 \times 3 = 27\text{cm}^3$$

L.O: To calculate volume

There are several short activities to try today:

- 1) PAGE 1 – choose the correct volume of the cuboid
- 2) Calculate the volume of the cuboids

$$\text{Height} \times \text{length} \times \text{width} = \text{volume}$$

- 3) This is a fun way of checking your understanding
- 4) If you are in school or at home with access to connecting blocks, try the challenge sheet!