

Volume

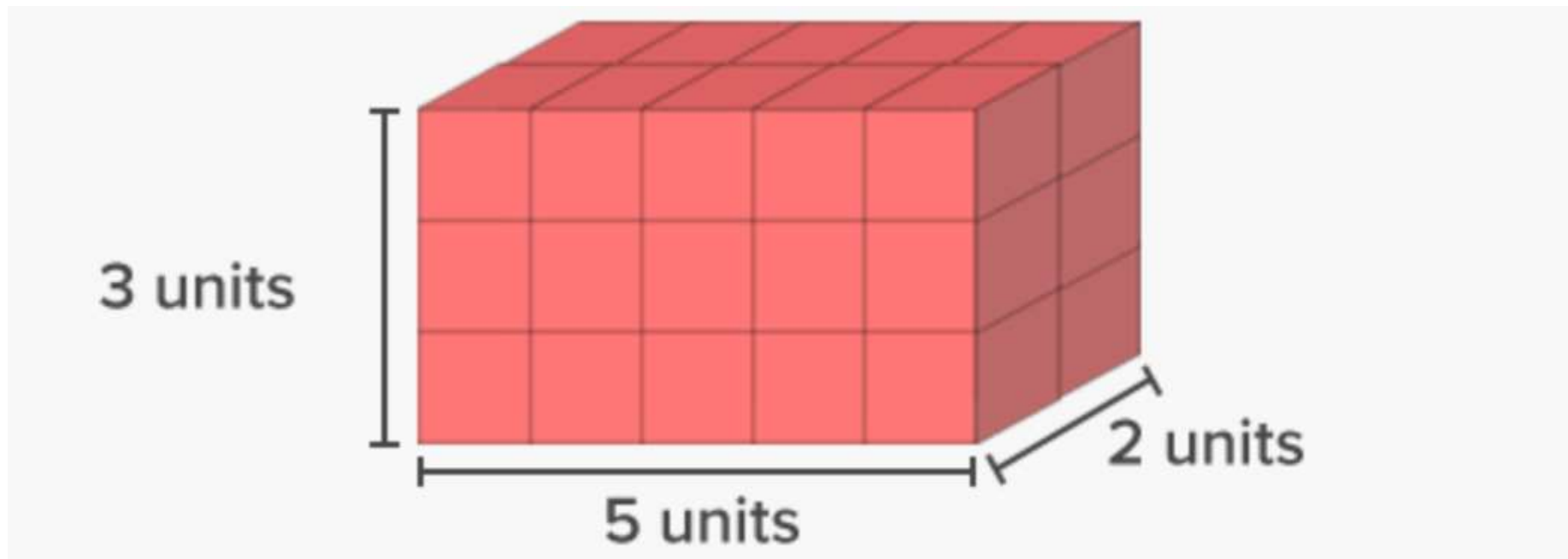
Friday 19th June

Measurement – Volume – Lesson 2

LO: To find the volume of a 3D shape

Yesterday, we looked at cube and cuboid shapes and we learnt how to calculate the volume of the shapes by either counting cubes or using a volume calculation:

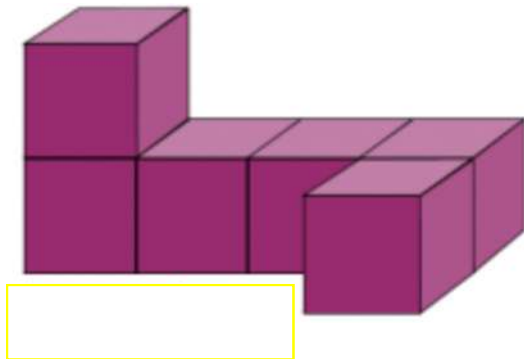
Volume = length x width x height



Today, we are going to look at some shapes which are also made up of unit cubes but they are not regular cubes and cuboids.

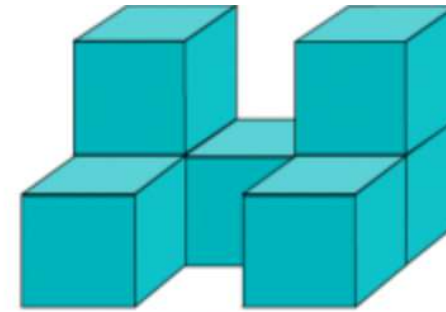
To calculate the volume of these shapes we will need to count the number of unit cubes.

Sometimes it is easy to count the number of unit cubes.



I can count 6 unit cubes = 6 unit^3 .

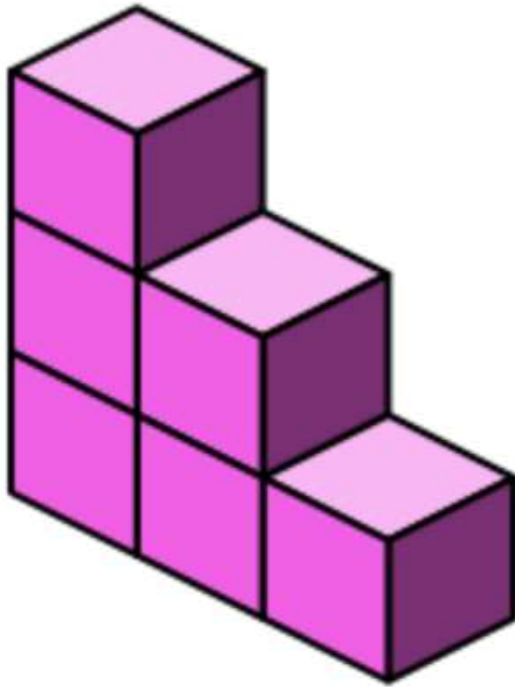
Sometimes you will need to look a bit closer and consider if there are some cubes hidden.



Here I can see 6 unit cubes but there is 1 cube hidden at the back and I need to count that as well.

So there are a total of 7 unit cubes = 7 unit^3 .

As well as being measured in unit cubes the cubes can also have other units of measurement e.g. cm, feet, inches etc.



Each cube is 1cm^3 .

So, the answer is:

6cm^3

Challenge Question

My shape is made up of 10 centimetre cubes.

The height and length are the same size.

What could my shape look like?

Create your own shape and write some clues for a partner.

Answer

My shape is made up of 10 centimetre cubes.

The height and length are the same size.

What could my shape look like?

Create your own shape and write some clues for a partner.

Possible solutions include:

