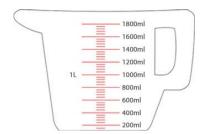
Capacity and Volume.

Previously we have investigated capacity-today we are going to investigate Volume.

What is the difference?

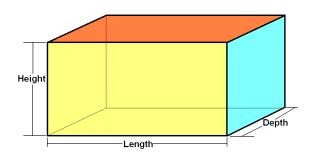
<u>Capacity</u> is how much liquid a 3D figure can hold. You looked at how much water you needed to fill various containers.

We measure capacity in millilitres and litres, you can see the units on a jug.



Volume is the amount of space inside a 3D figure.

A 3D figure has three measurements. It's height, its length and its width, sometimes this is also called its depth.



We measure volume in **cubic units**.

How do we find the volume of an item?

Let's investigate a problem to help us:

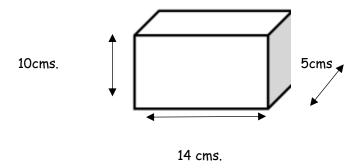
Max has a new fish tank. He wants to find out how much water the tank can hold.

There is a special formula he can use.

Volume = length \times width \times height'

Let's solve this problem:

Here is the fish tank with its measurements,

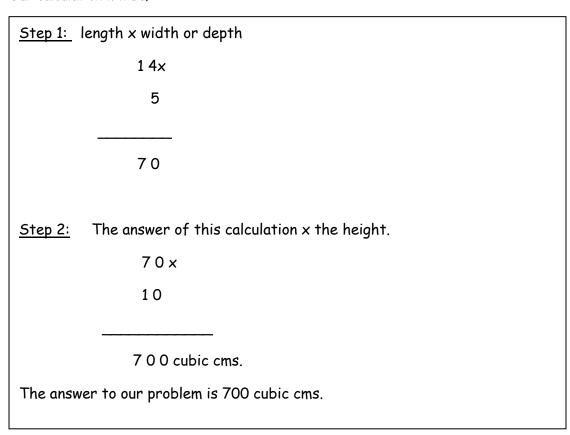


Using the formula, Volume = length x width x height

We can write a number sentence

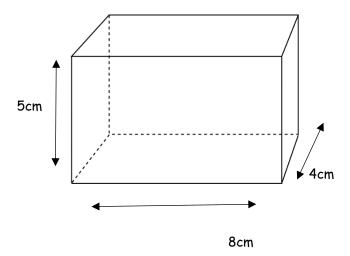
V= 14cms × 5cms × 10cms =

Our calculation will be;



Now you try and solve these problems, remember to follow the 2 step pattern.

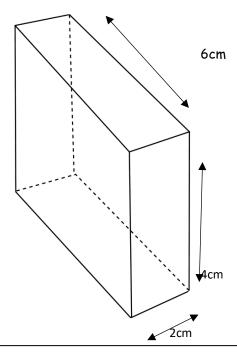
1. What is the volume of this cuboid?



 $\underline{\text{Step 1:}}$ length x width or depth

Step 2: Answer x height

2. Find the volume of this cuboid.



 $\underline{\text{Step 1:}} \ \ \text{length x width or depth}$

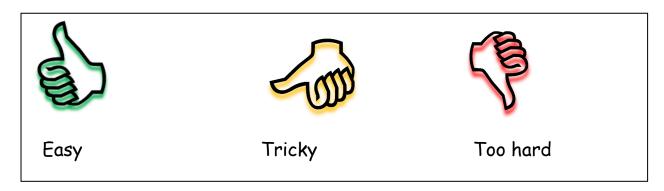
Step 2: Answer x height

<u>Step 1:</u>					
<u>Step 2:</u>					
ou have a box for the swee Step 1:	of sweets that is ets?	s 8 cm long, 5 c	m wide, and 2 c	m tall, how mud	ch spac
Step 2:					

5. If you have a dresser that is 7 meters high, 2 meters wide, and 4 meters long, how much room do you have for your clothes?

Step 1:			
<u>Step 2:</u>			

Self-evaluation:



I think that because,