



- 1) Complete the following sentences:

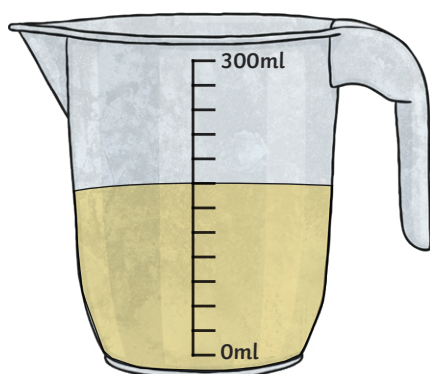
\_\_\_\_\_ is the amount a container can hold.

\_\_\_\_\_ is the amount of space something takes up.

- 2) The cuboids listed are made of 1cm cubes. Calculate the dimensions of each cuboid and fill in the table:

Shape	Width	Length	Height	Volume $\text{cm}^3$
A	3cm	2cm		$18 \text{ cm}^3$
B	4cm			$60 \text{ cm}^3$

- 3) Look at this container. Identify both the capacity of the container and the volume of the liquid. Remember to use the correct units:



Capacity: \_\_\_\_\_

Volume: \_\_\_\_\_

- 1) a) Draw lines to match the volume to the shape.  
b) One shape and one volume do not have a match. Circle them.

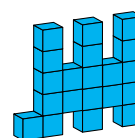
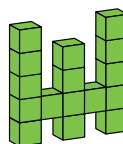
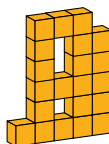
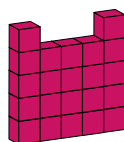
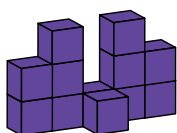
$12\text{cm}^3$

$20\text{cm}^3$

$21\text{cm}^3$

$11\text{cm}^3$

$22\text{cm}^3$



- 2) Abdallah makes a shape with 1cm cubes which has:

- a volume of less than  $22\text{cm}^3$ ;
- a height of more than 2cm.

- a) Use cubes to make shapes which could fit this description.

- b) Draw one of the shapes you have built here:





- 1) Which shape described here has the greatest volume?

Shape A is 8 cubes long, 3 cubes wide and 2 cubes tall.

Shape B is 9 cubes long, 2 cubes tall and 2 cubes wide.

Shape C is 4 cubes wide, 2 cubes long and 6 cubes tall.

Prove it:

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- 2) Kyla builds a cuboid with a volume of  $16\text{cm}^3$ .

a) What could the width, height and length be? Find three possible solutions.

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b) She builds a shape with half the volume of her first shape. What could the width, height and length of the new shape be?

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