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WALT: define volume.

Please choose one sheet that will challenge you to complete.

1 = unsure 2= I feel alright and 3 = confident.

If you start a sheet and it isn't challenging you, move to the next sheet.

1)

1) Complete the following sentences:

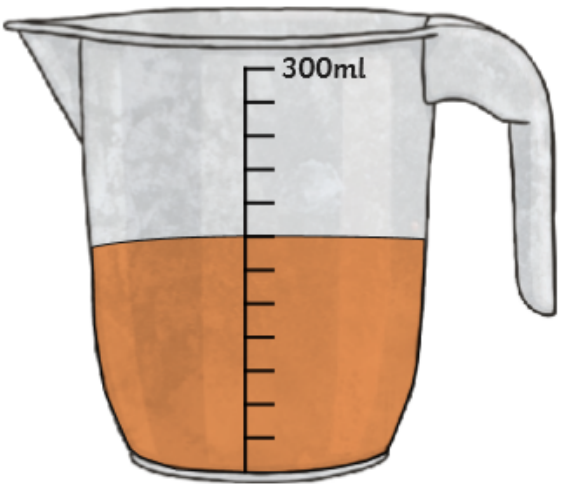
_____ is the amount a container can hold.

_____ 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 cm^3
A	3cm	2cm		$18cm^3$
B	4cm			$60cm^3$

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: _____

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2)

1) Draw lines to match the volume to the shape.

b) One shape and one volume do not have a match. Circle them.

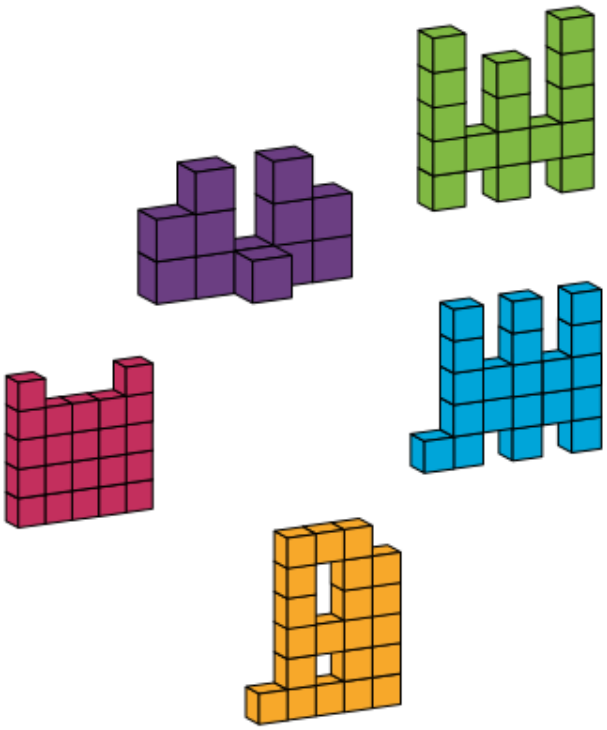
$12cm^3$

$20cm^3$

$21cm^3$

$11cm^3$

$22cm^3$



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

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

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

b) Draw one of the shapes that you have built in your book.

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3)

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.

2) Kyla builds a cuboid with a volume of $16cm^3$.

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

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?