

LO: I CAN SOLVE CAPACITY PROBLEMS (UP TO 1000ML)

Page

Success Criteria

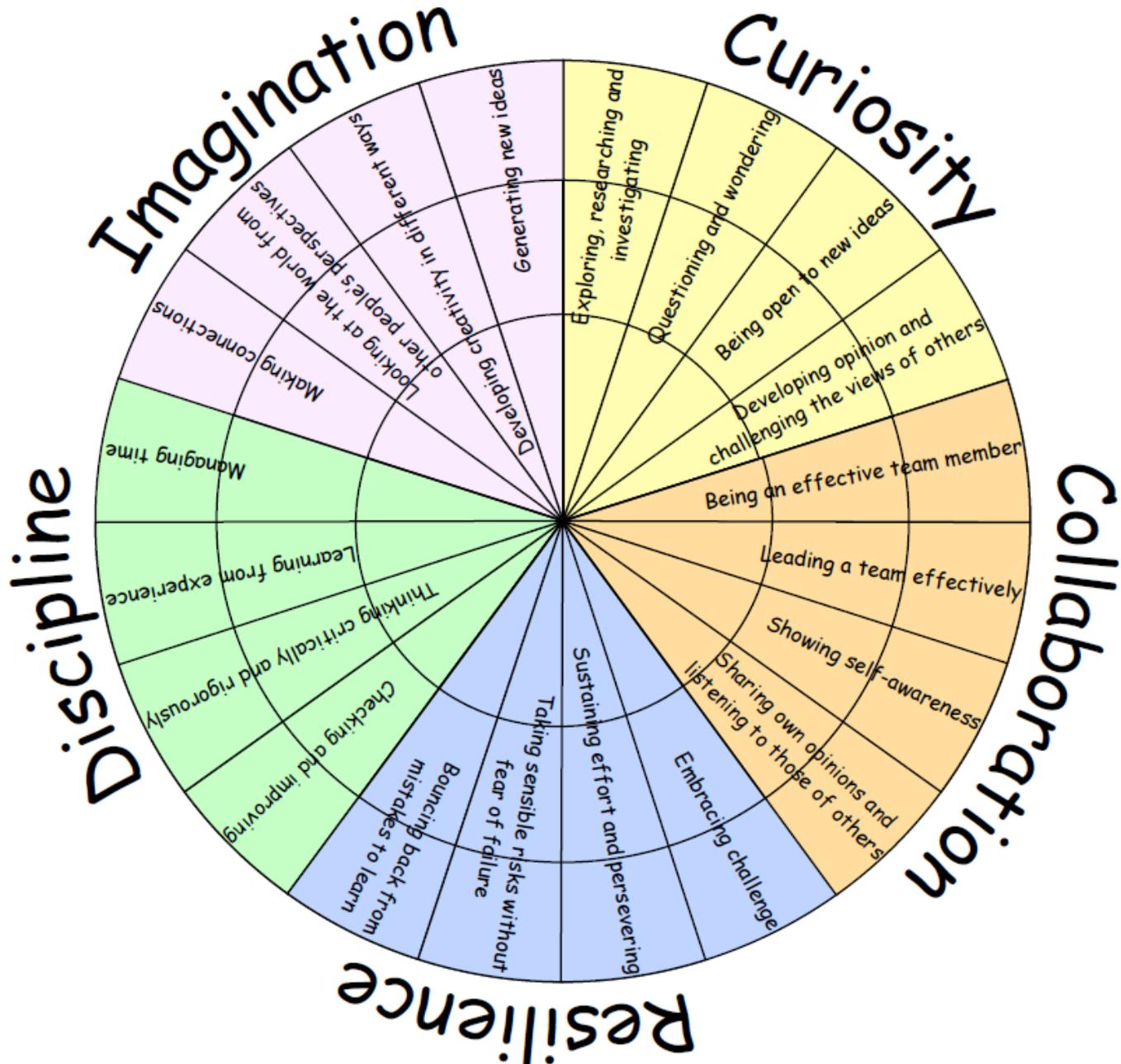
Some will even reason their answers.

Some will solve trickier word problems.

Most will solve $+-x\div$ capacity word problems.

All will solve simple $+-x\div$ capacity word problems.

LEARNING HABITS?



WORD PROBLEMS (1)

Addition

1

A cup of tea is 50ml. On Monday, I drank 4 cups. How many ml do I drink?



$$50\text{ml} + \underline{\quad}\text{ml} + \underline{\quad}\text{ml} + \underline{\quad}\text{ml} = \underline{\quad}\text{ml}$$

2

A can of Tango has 300ml.
A can of 7up has 300ml.
How many ml altogether?



$$300\text{ml} + \underline{\quad}\text{ml} = \underline{\quad}\text{ml}$$

3

I buy a bottle of orange with 250ml.
I buy apple juice with 150ml.
How many ml are there altogether?



$$\underline{\quad}\text{ml} + \underline{\quad}\text{ml} = \underline{\quad}\text{ml}.$$

4

The bottles hold 100ml in.
Add all the ml together.



$$100\text{ml} + \underline{\quad}\text{ml} + \underline{\quad}\text{ml} + \underline{\quad}\text{ml} = \underline{\quad}\text{ml}$$

5

A bottle of washing up liquid has 400ml.
I buy two of them.
Write the addition sentence and solve.



$$\underline{\quad}\text{ml} + \underline{\quad}\text{ml} = \underline{\quad}\text{ml}$$

Subtraction

6

A cup of tea holds 50ml. I sip 10ml and then accidentally drop the cup. How many ml did I drop?



$$50\text{ml} - \underline{\quad}\text{ml} = \underline{\quad}\text{ml}$$

7

A bottle of shampoo holds 400ml.
I use 100ml over the week.
How much is left?



$$400\text{ml} - \underline{\quad}\text{ml} = \underline{\quad}\text{ml}$$

8

A bottle of air freshener holds 300ml.
Over the week, I use 100ml of it.
How many ml is left?



$$300\text{ml} - \underline{\quad}\text{ml} = \underline{\quad}\text{ml}$$

9

The bottle of hand wash has 250ml inside.
I use 150ml over the week.
How much is left?



$$\underline{\quad}\text{ml} - \underline{\quad}\text{ml} = \underline{\quad}\text{ml}$$

10

A watering can holds 1000ml of water. I use 700ml of it watering my plants.
How many ml are left?



$$\underline{\quad}\text{ml} - \underline{\quad}\text{ml} = \underline{\quad}\text{ml}.$$

WORD PROBLEMS (2)

Multiplication

- 1 A can of Vimto holds 300ml.
How many ml would be in
3 cans?



$$3 \times 300\text{ml} = \underline{\quad\quad} \text{ml.}$$

- 2 A bottle of strawberry milkshake
has 400ml. How many would be
inside two bottles?



$$2 \times \underline{\quad\quad} \text{ml} = \underline{\quad\quad} \text{ml.}$$

- 3 Each mini bottle of water holds
200ml. How many ml are in
four bottles?



$$\underline{\quad} \times \underline{\quad\quad} \text{ml} = \underline{\quad\quad} \text{ml}$$

- 4 A bottle of hand cream has 50ml inside.
How many ml will 6 bottles have?



$$\underline{\quad} \times \underline{\quad\quad} \text{ml} = \underline{\quad\quad} \text{ml}$$

- 5 A bottle of aftershave holds 125ml.
How many ml will be in three bottles?



$$\underline{\quad} \times \underline{\quad\quad} \text{ml} = \underline{\quad\quad} \text{ml.}$$

Division

- 6 A pouch of Capri-Sun holds 200ml.
If I drink half, how much is left?



$$\underline{\quad\quad} \text{ml} \div 2 = \underline{\quad\quad} \text{ml.}$$

- 7 A bottle of hand sanitizer holds 50ml.
I share it between five people.
How many ml of hand sanitizer do they get?



$$50\text{ml} \div 5 = \underline{\quad\quad} \text{ml.}$$

- 8 The teapot holds 400ml.
If I share it equally between 4
cups, how many ml is in each cup?



$$400\text{ml} \div 4 = \underline{\quad\quad} \text{ml}$$

- 9 A carton of orange juice holds 800ml.
I share it between 4 children.
How many ml do they get each?



$$\underline{\quad\quad} \text{ml} \div 4 = \underline{\quad\quad} \text{ml}$$

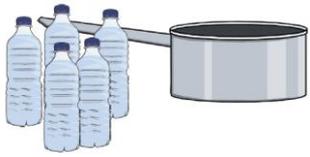
- 10 This mini bottle of sun cream holds 50ml.
If I use 10ml each time I use it,
how many times can I use it?



$$50\text{ml} \div 10\text{ml} = \underline{\quad\quad}$$

WORD PROBLEMS (1)

1

It takes five bottles to fill 1 pan. How many bottles will it take to fill 2 pans? 

It will take _____ bottles to fill the pan.

This red pot is larger than the pan. It takes 3 more bottles to fill it compared to the bottles needed to fill 1 pan. 

It will take _____ bottles to fill the pot.

How many bottles will it take to fill half the pot? _____

3

 750ml  300ml  550ml

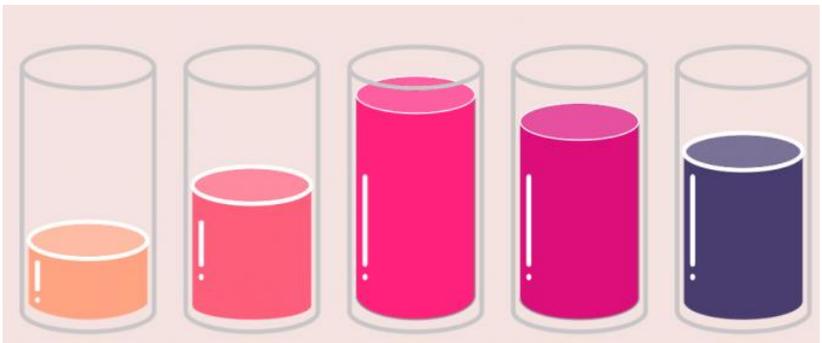
The bottle of milk holds _____ than the can of cola.

The capacity of the can of cola is _____ ml.

The can of cola holds _____ than the carton of orange juice.

2

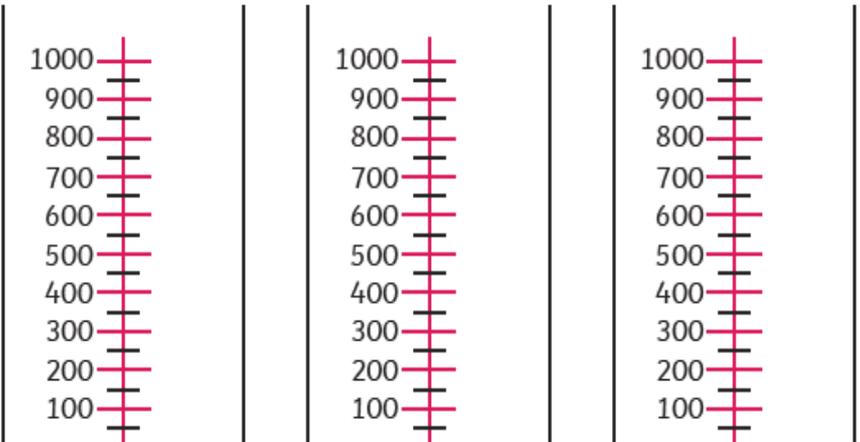
These glasses are identical (the same). They have been filled with different amounts of liquid. Match the glasses to the right label. One has been done for you.



200ml 450ml 500ml 300ml 400ml

4

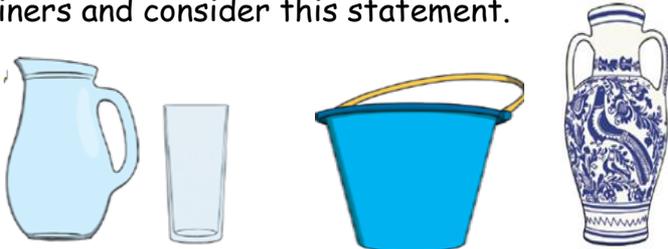
Colour in the measuring jugs to show the capacity.



750ml 300ml 550ml

WORD PROBLEMS (2)

1 Look carefully at the height and width of these containers and consider this statement.



The tallest container has the largest capacity.

Is this true, sometimes true or never true? Explain.

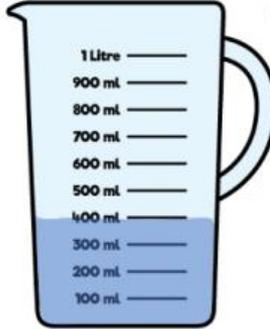
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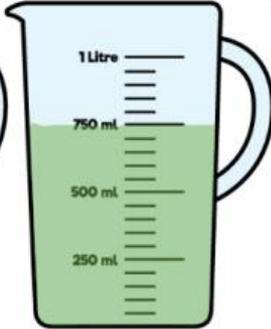
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3 Complete the sentences.

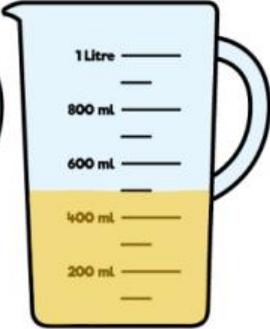
A



B

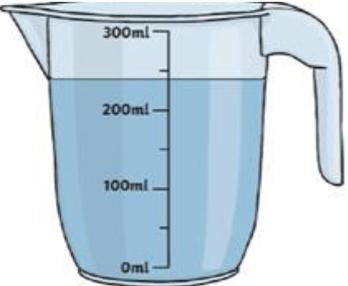


C

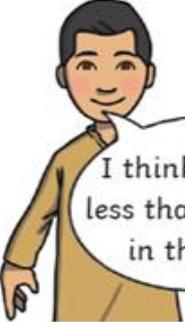


The capacity of container A is _____ ml.
 The capacity of container B is _____ ml.
 The capacity of container C is _____ ml.

2 Ranjit and Holly are using a measuring jug to measure water.



Who is right? Convince me. How much do you think is in the jug?



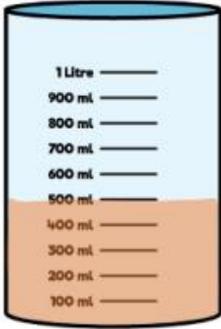
I think there's less than 250ml in the jug.



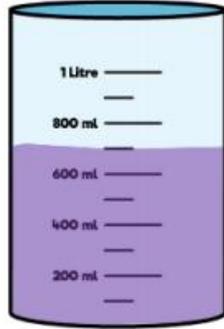
I think there's more than 250ml in the jug.

4 Identify what the scale is going up in.

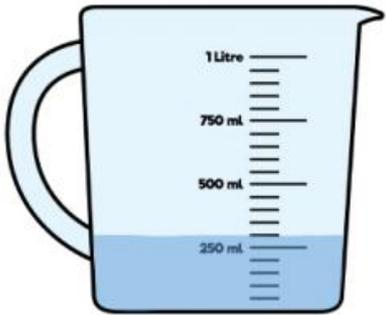
A



B



C



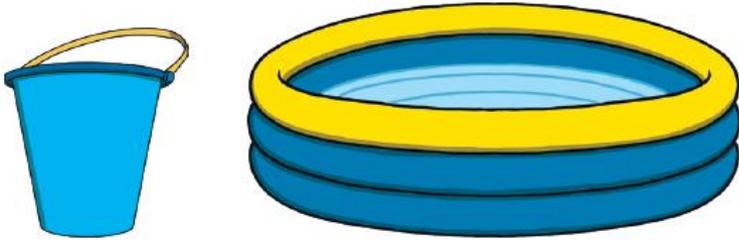
Container A increments increase by _____.
 Container B increments increase by _____.
 Container C increments increase by _____.

WORD PROBLEMS (1)

3 BEFORE ME 

1

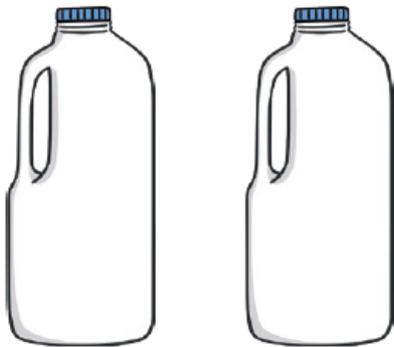
It takes 55 litres of water to fill the paddling pool. My bucket holds 5 litres. How many bucketfuls of water will I need to fill the pool?



2

The school kitchen staff order milk in 2-litre bottles. They buy 5 bottles a day.

How many litres of milk is that?



How many litres would the kitchen need for Monday to Friday?

3

My bottle holds 200ml of water. It takes 10 spoons of water to fill the bottle.

What is the capacity of 1 spoon?



4

The capacity of a cup is 100ml. I can pour 6 cups of tea from my teapot. How much tea does the teapot hold?



WORD PROBLEMS (2)

1 Colour in the correct amount.

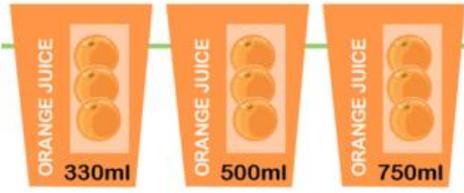


half
a litre

quarter
of a litre

three quarters
of a litre

2 I tip all three cartons of orange juice into a jug. How many ml do I have?
Show your working out with a method.



3 A toddler needs 5ml of Calpol four times a day.

How many ml does he need in a day?
How many ml does he need over the week?
How many ml does he need for a month (4 weeks)?



3

This jug holds 1L of liquid.
How many of these smaller containers will it take to fill the jug?
Draw the containers to prove it.



How many cups of tea will it take to fill the jug?



+

100ml

=1000ml

How many bottles will these containers take?



200ml +

= 1000ml



500ml +

= 1000ml



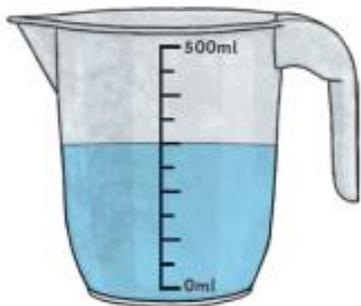
250ml +

=1000ml

WORD PROBLEMS (1)

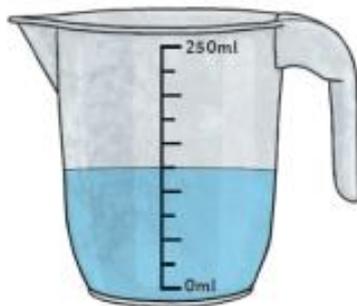
1

What capacities do these jugs hold? What do the little increments (lines) increase by?



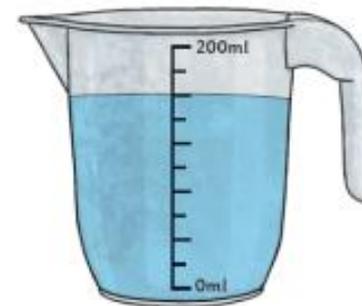
Interval: _____

Container capacity: _____



Interval: _____

Container capacity: _____

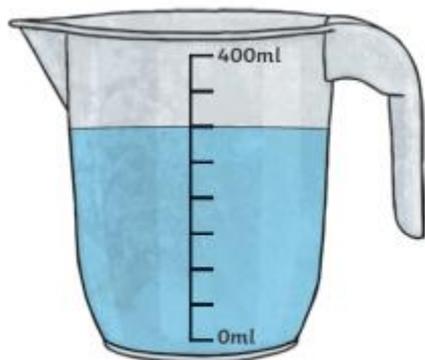


Interval: _____

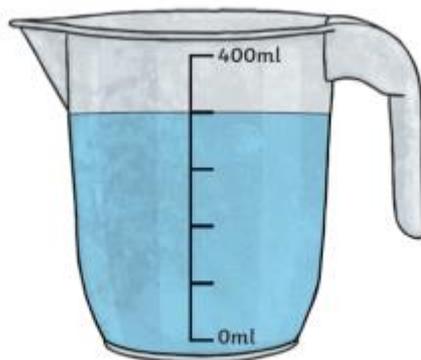
Container capacity: _____

2

A bottle of water has the capacity of 300ml. Which jug does not contain the contents of the bottle? Explain.



Volume: _____



Volume: _____



Volume: _____

WORD PROBLEMS (2)

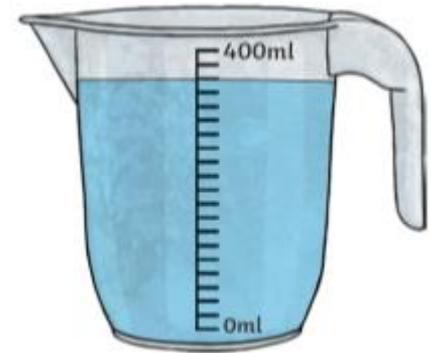


1

Ali says there is 340ml of liquid in this container.
Do you agree? Explain your answer.

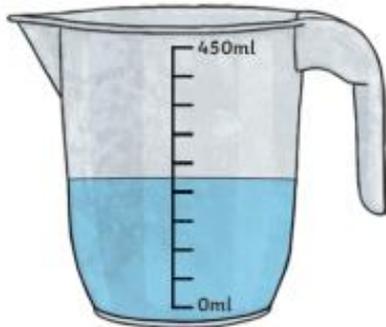
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What is the difference between the jug's capacity and 300ml?

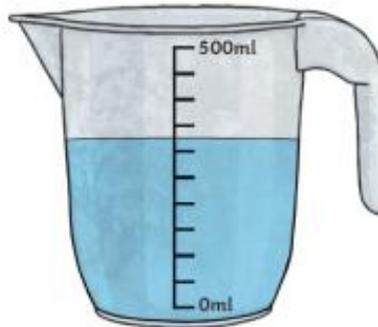


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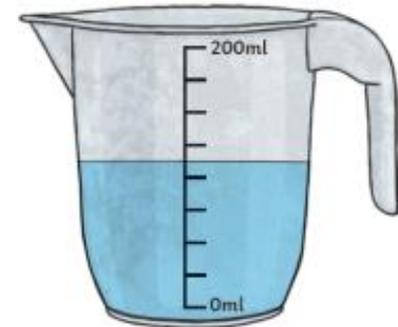
Match the container to each child.



Container A



Container B



Container C

Henry says,

"My container has more than a quarter of a litre in it."

Rafe says,

"My container is half full."

Aria says,

"My container has 100ml less in it than Rafe's."

Jessica has a jug with 450ml and Mason has a jug with 1l 250ml in it. What clues could you give?