

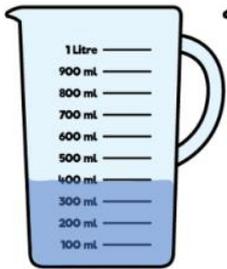
Maths Daily Tasks

11.05.20 – To measure volume and capacity (l and ml) Part 1

Volume = space taken up by the liquid
 Capacity = amount of liquid needed to fill the container

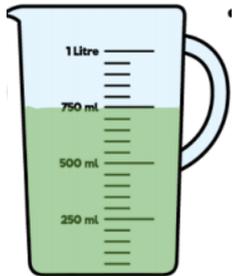
1) Describe the capacity and volume of each container

Example:



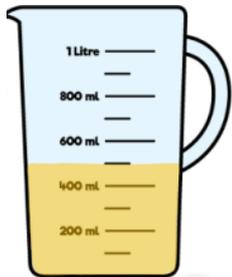
The volume of liquid is 400ml.

The capacity of the container is 1l.



a) The volume of liquid is _____ ml.

The capacity of the container is _____ l.



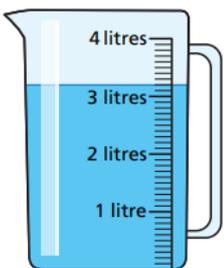
b) The volume of liquid is _____ ml.

The capacity of the container is _____ l.

2) Identify what the scale is going up in to find the volume in each container

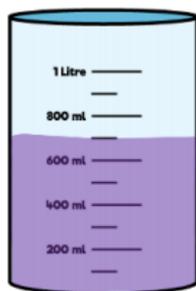
1000ml = 1l

Example:



• The increments are in 100ml.

• The volume is 3l and 200ml.



• The increments are in _____ ml

• The volume is _____ l and _____ ml.



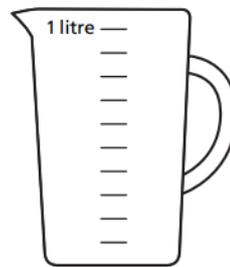
• The increments are in _____ ml

• The volume is _____ l and _____ ml.

• The increments are in _____ ml

• The volume is _____ l and _____ ml.

3) Shade the jugs to show where the liquid will reach

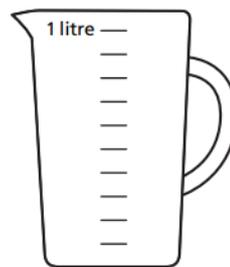
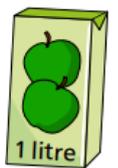


a) 700ml

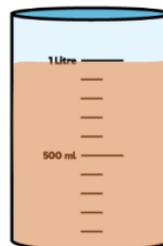


250ml

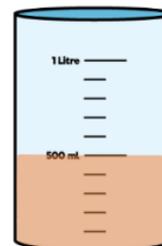
b) Amelia has a carton of apple juice. She pours 600ml into one jug and the rest into the other jug. Shade each jug to show where the juice will reach.



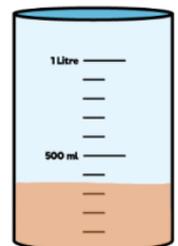
4) Solve – who has each container?



A



B



C

Tommy: I have 1000ml

Rebecca: I have exactly half a litre

Tosan: I have more than 300ml but less than 400ml

Challenge: How much liquid does Tosan have?

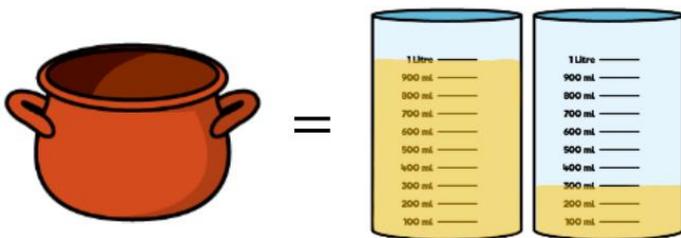
12.05.20 – To measure volume and capacity (l and ml) Part 2

1) Estimate and measure

Find a variety of containers around your house. Estimate how much liquid they hold (capacity). Check your estimates using measuring jugs.

Object	Estimate	Capacity

2) Complete the missing information



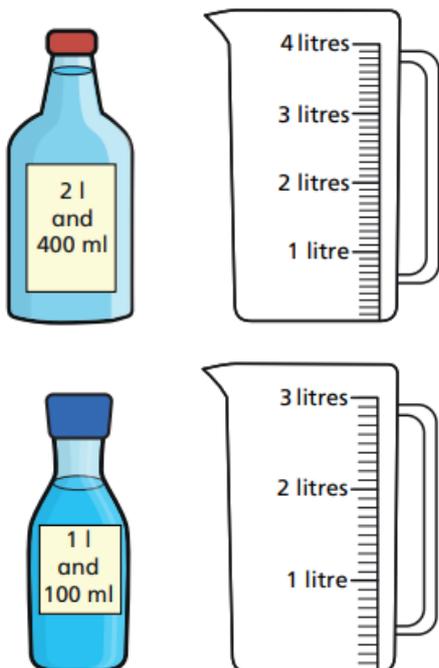
The pot's capacity is ___ l and ___ ml.



Each measuring cylinder holds 1l.

The barrel's capacity is ___ l and ___ ml.

3) Shade each jug to show the capacity of each container.

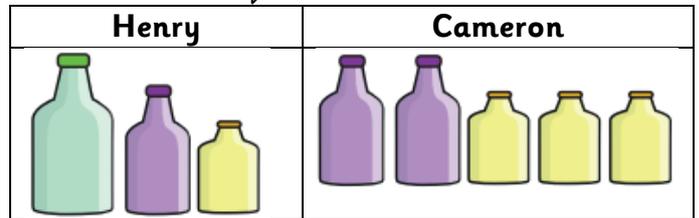


4) Solve

Each bottle holds a different amount of liquid.



Who has more liquid?



5) True or False

Harrison has some orange juice in a jug. He pours it into another jug.

Draw a line to show where the orange juice will reach.

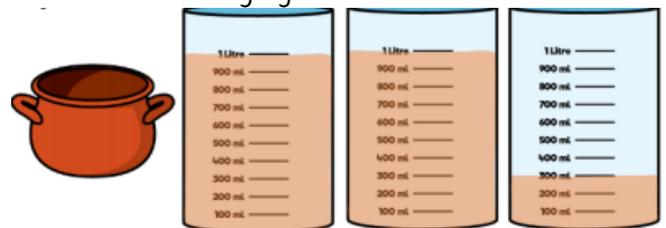


True or False?

The taller the container the larger the capacity.

6) Who is correct?

Ava and Phora work out the capacity of the pot by filling it with water, then pouring the water into the measuring cylinders.



Phora: The capacity of the pot is 500ml.

Ava: The capacity of the pot is 2l and 300ml.

Challenge:

What might Phora have done to get her answer?

13.05.20 – To compare capacity

1) Compare

a) Put these glasses in order of volume starting with the least amount of water.



least most

b) In each pair, circle the object with the largest capacity

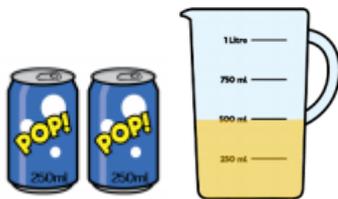


c) Put these capacities in order starting with the smallest.



least most

2) Complete the sentences using $\frac{1}{2}$ and $\frac{1}{4}$



2 cans of pop are equal to a _____ jug of orange juice.

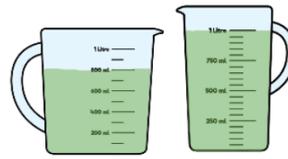
1 can of pop is equal to a _____ jug of orange juice.

Challenge:

- What is the capacity of the jug?
- What is the capacity of 2 cans of pop?
- What is the capacity of 1 can of pop?

3) Use <, > and = to compare the volume of liquid in each container.

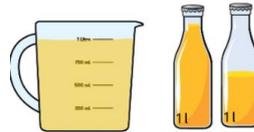
The volumes have been worked out for you.



a) 800ml _____ 1l



b) 1l and 600ml _____ 750ml



c) 1l _____ 1l and 500ml

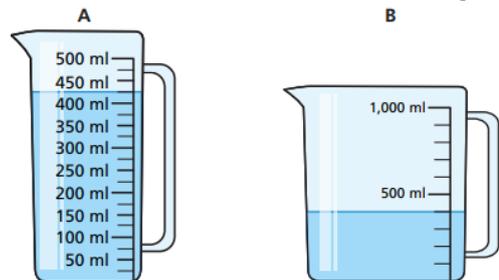
Challenge:

Eli has 3 bottles of water with 500ml in each. Thomas has 1 bottle of water 1l and a half litres of water in it.

Who has the most water?

Can you prove it with a drawing?

4) Which container has the most liquid?



Container _____ has the most liquid.

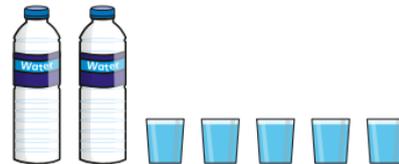
Explain your answer.

Challenge:

Use the word 'increment' in your answer.

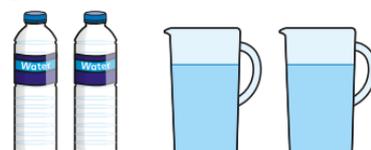
5) Compare capacities

a) Amber has two bottles of water. She pours them into some glasses.



Which holds more water – a bottle or a glass?

b) Evie has two bottles of water. She pours them into two jugs.

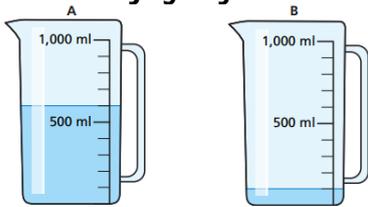


Which holds more water – a bottle or a jug?

14.05.20 – To add capacity

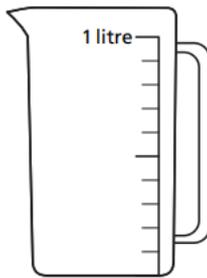
1) Add

Andrew has some jugs of water.



- a) How much water is in jug A? _____ ml
- b) How much water is in jug B? _____ ml

c) Andrew pours all the water from jug A and B into a new jug C. Draw a line on the jug to show the total amount of water in jug C.

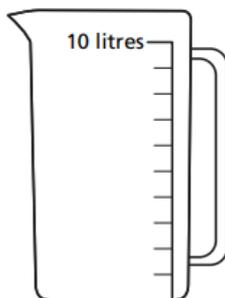


Rayhan has some bottles of juice.



- a) How much juice does he have altogether? _____ l

b) Rayhan pours all his juice into a jug. Draw a line on the jug to show the total amount of juice.



2) Add 1 first then ml

Joseph uses Dienes and a place value chart to solve: 3l and 500ml + 3l and 300ml.

l	ml
6 l	800 ml

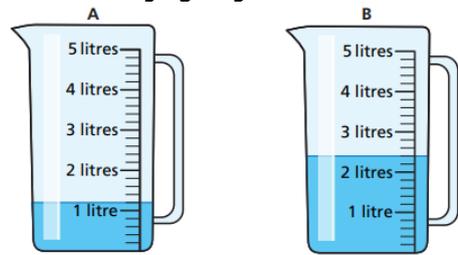
He has added the l first
(3l + 3l = 6l)

Then he added the ml
(500ml + 300ml = 800ml)

Use this method to solve:

- a) 4l and 600ml + 2l and 100ml
- b) 1l and 400ml + 3l and 150ml
- c) 7l and 320ml + 1l and 125ml
- d) 7l and 950ml + 2l and 12ml

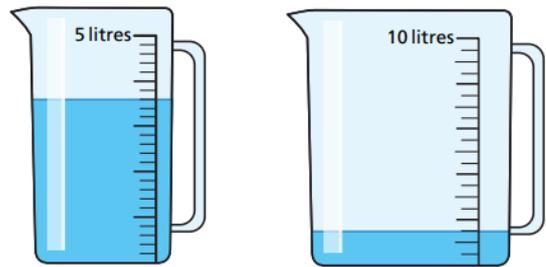
Jessie has two jugs of water.



How much water does Jessie have in total?
_____ l and _____ ml.

3) Who is correct?

Harley and Jack each have a jug with some water in.



Harley

Jack

Jack wants to pour his water into Harley's jug. Harley: "I do not think it will fit!"

Jack: "Of course it will!"

Who is correct?

4) Solve

To make Summer Punch for 2 people:

- 300 ml of pineapple juice
- 250 ml of orange juice
- 500 ml of lemonade

- a) How much liquid is used in total to make summer punch for 2 people?
_____ l and _____ ml

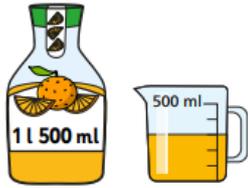
- b) How much orange juice would be needed to make summer punch for 4 people?
_____ ml

- c) Would a 1l bottle of lemonade be enough to make summer punch drinks for 6 people?

15.05.20 – To subtract capacity

1) Subtract

Lois has 1l and 500ml of juice in a bottle.



She pours some of the juice into a jug.
How much juice is left in the bottle?
_____l and _____ml.

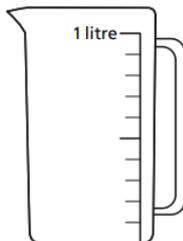
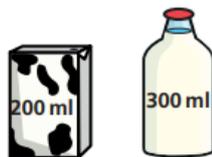
2) Subtract l first then ml

25l and 350ml – 11l and 220ml
 $25l - 11l = 14l$
 $350ml - 220ml = 130ml$
 Answer = 14l and 130ml

- a) 3l and 950ml – 3l and 50ml
- b) 800ml – 375ml
- c) 50l and 729ml – 28l and 728ml
- d) 1l - _____ml = 300ml
- e) A fish tank has a capacity of 4l and 900ml.
It currently holds 3l and 700ml.
How much more water can the fish tank hold?

3) Solve

Fraser owns a café.
He is sorting out the milk.
A carton holds 200ml of milk
A bottle holds 300ml of milk

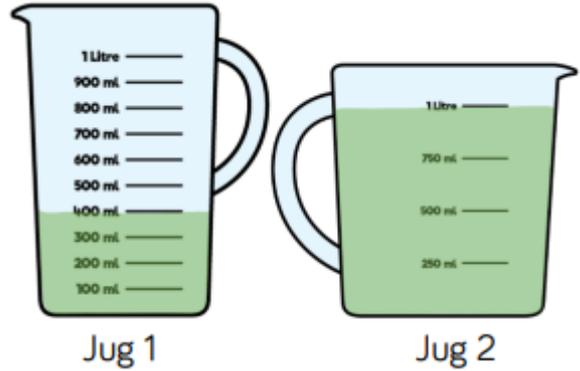


- a) He empties 3 milk cartons into a jug. Draw a link on the jug to show how much milk there is.
- b) How many bottles can he fill using the milk that is in the jug?
- c) Fraser keeps a record of how much milk he has in his café during the day. Work out how much milk is used for each order.

Amount of milk to start	Amount of milk left	Amount of milk used
1l and 430ml	1l and 100ml	
1l and 100ml	890ml	
890ml	545ml	

4) Is Mollie correct?

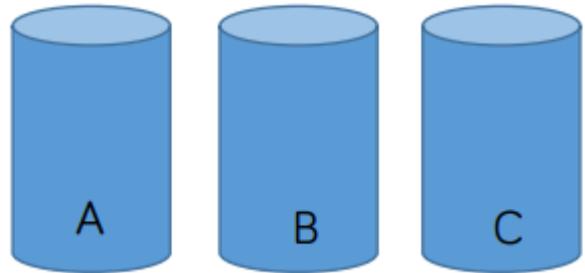
A drink is 125ml
Mollie is pouring drinks using these jugs.



Mollie: “If I pour three more drinks using Jug 2, both jugs will have the same amount of juice in.”
 a) Is Mollie correct?
 b) If not, how much juice will be left in Jug2?

5) Solve

Here are some measuring cylinders.
The total amount of liquid in all 3 cylinders is 400ml



Cylinder A has half the total amount in in.
Cylinder A = _____ml
 Cylinder B has 67ml less than cylinder A in it.
Cylinder B = _____ml
 Cylinder C has the rest of the liquid in.
Cylinder C = _____ml

Well Done Year 3!

The fact that you are attempting these maths activities shows how determined you are to succeed and learn. You are doing so well and making all of your teachers extremely proud of you. Keep up the hard work you superstars!