

Lesson 3

Add and subtract mass

<https://vimeo.com/434623103> - Link for today's video 😊

Copy and paste to your browser if it doesn't work.

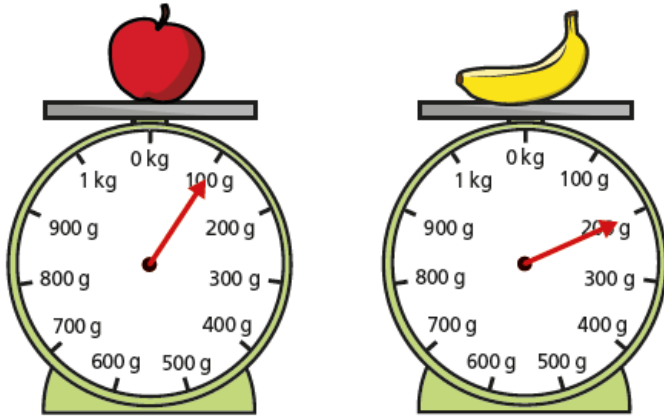
1. Watch the video clip for today's teaching
2. Complete the questions on the next few pages
3. Also, have a look at BBC Bitesize Daily activities for extra learning if you like:

<https://www.bbc.co.uk/bitesize/dailylessons>



Add and subtract mass

1 Teddy is measuring the weight of some fruit.



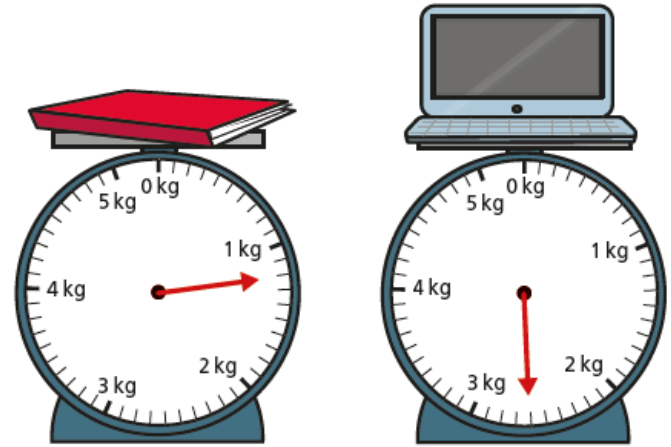
- a) What is the weight of the apple? g
- b) What is the weight of the banana? g
- c) Teddy puts both pieces of fruit on the same scale.
What is the total weight of the apple and the banana? g

2 Alex is measuring the weight of some ingredients.



What is the total weight of the ingredients? kg

3 Ron is measuring the mass of some objects in the classroom.



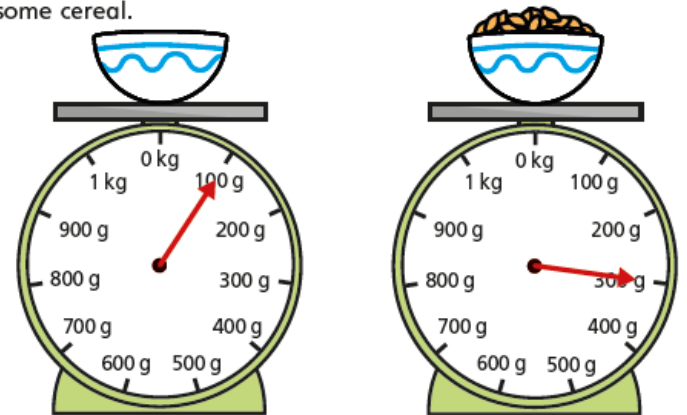
Ron puts both objects on the same scale.

What is the total mass of the objects?

kg and g

4 Aisha is weighing out some cereal.

First she puts the bowl on the scales. Then she pours out some cereal.



What is the weight of the cereal in the bowl? g



Challenges:

7 Complete the number sentences.

a) $1 \text{ kg } 250 \text{ g} + 5 \text{ kg } 300 \text{ g} = \square \text{ kg } \square \text{ g}$

b) $3 \text{ kg } 450 \text{ g} + 8 \text{ kg } 120 \text{ g} = \square \text{ kg } \square \text{ g}$

c) $15 \text{ kg } 960 \text{ g} - 11 \text{ kg } 270 \text{ g} = \square \text{ kg } \square \text{ g}$

d) $36 \text{ kg } 317 \text{ g} - 21 \text{ kg } 199 \text{ g} = \square \text{ kg } \square \text{ g}$

e) $1 \text{ kg} - \square \text{ g} = 200 \text{ g}$

8 Tommy and Rosie are working out the total weight of the box and the suitcase.



The total weight is 5 kg and 1,200 g.

Tommy

The total weight is 6 kg and 200 g.

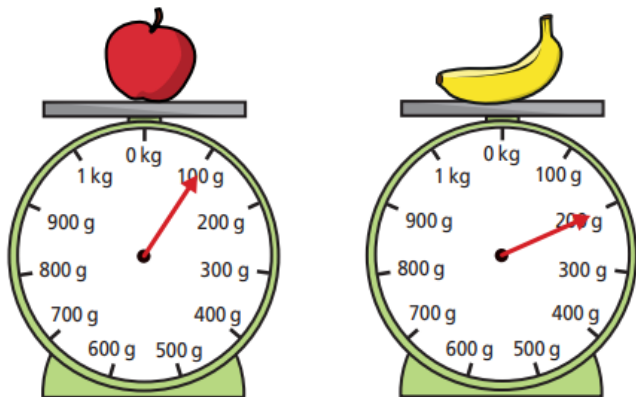


Rosie

Who is correct? _____

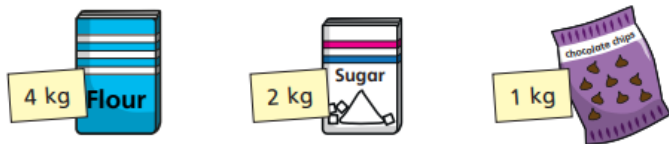
Add and subtract mass

- 1 Teddy is measuring the weight of some fruit.



- a) What is the weight of the apple? g
- b) What is the weight of the banana? g
- c) Teddy puts both pieces of fruit on the same scale.
What is the total weight of the apple and the banana? g

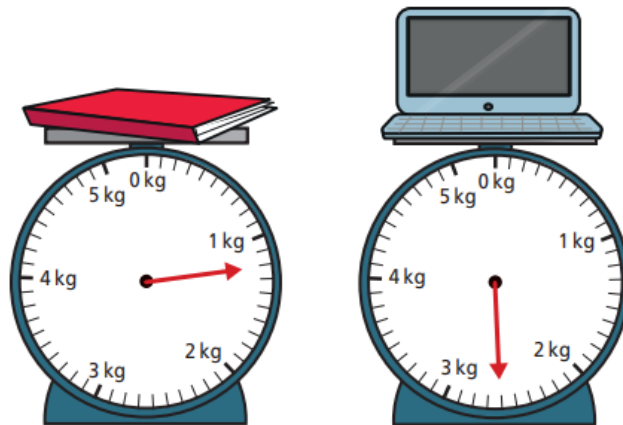
- 2 Alex is measuring the weight of some ingredients.



What is the total weight of the ingredients?

kg

- 3 Ron is measuring the mass of some objects in the classroom.



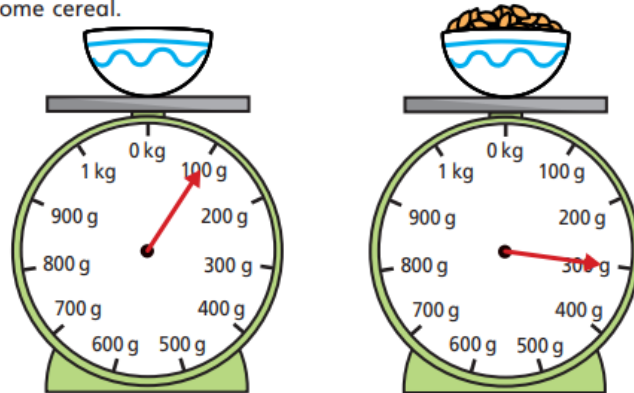
Ron puts both objects on the same scale.

What is the total mass of the objects?

kg and g

- 4 Aisha is weighing out some cereal.

First she puts the bowl on the scales. Then she pours out some cereal.



What is the weight of the cereal in the bowl?

g

ANSWERS

7 Complete the number sentences.

a) $1 \text{ kg } 250 \text{ g} + 5 \text{ kg } 300 \text{ g} = \boxed{6} \text{ kg } \boxed{550} \text{ g}$

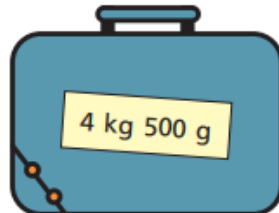
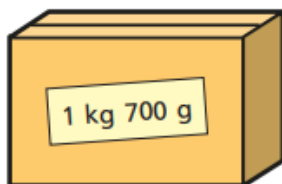
b) $3 \text{ kg } 450 \text{ g} + 8 \text{ kg } 120 \text{ g} = \boxed{11} \text{ kg } \boxed{570} \text{ g}$

c) $15 \text{ kg } 960 \text{ g} - 11 \text{ kg } 270 \text{ g} = \boxed{4} \text{ kg } \boxed{690} \text{ g}$

d) $36 \text{ kg } 317 \text{ g} - 21 \text{ kg } 199 \text{ g} = \boxed{15} \text{ kg } \boxed{118} \text{ g}$

e) $1 \text{ kg} - \boxed{800} \text{ g} = 200 \text{ g}$

8 Tommy and Rosie are working out the total weight of the box and the suitcase.



The total weight is 5 kg and 1,200 g.

Tommy



The total weight is 6 kg and 200 g.

Rosie

Who is correct? both

Lesson 4

Measure capacity

<https://vimeo.com/434623253> - Link for today's video 😊

Copy and paste it into your browser if it doesn't work.

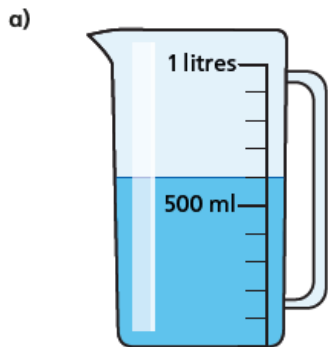
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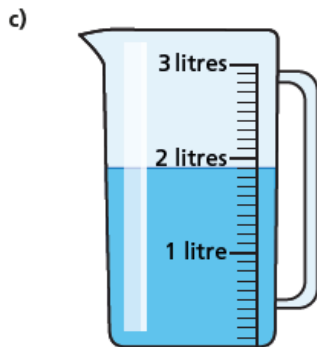


Measure capacity (2)

1 How much water is there in each jug?



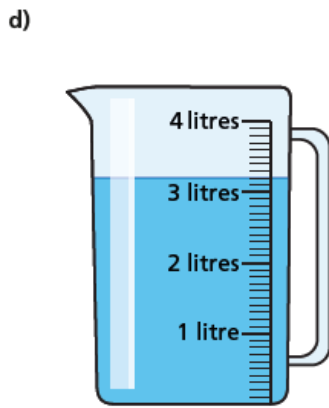
ml



l and ml



l and ml



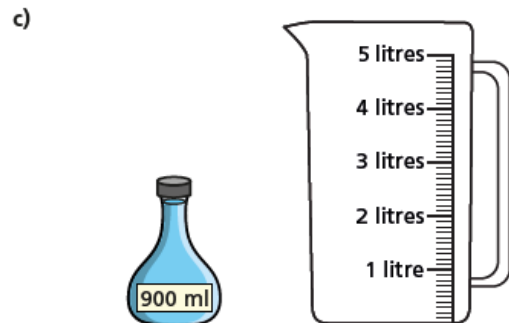
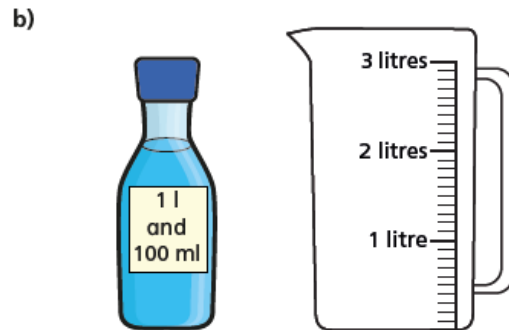
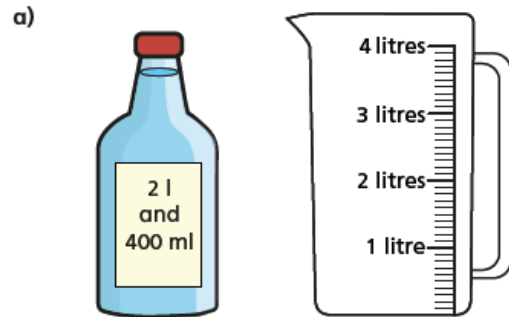
l and ml

2 The capacity of each bottle is shown on the label.

Each bottle is full of liquid.

The bottles are emptied into jugs.

Draw a line on each jug to show where the liquid will reach.

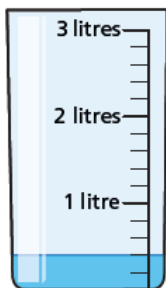




Challenges:

3 How much water is there in each container?

a)



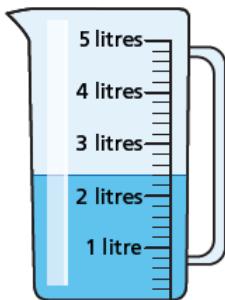
ml

c)



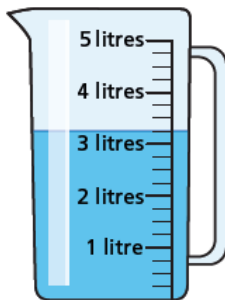
l and ml

b)



l and ml

d)



l and ml

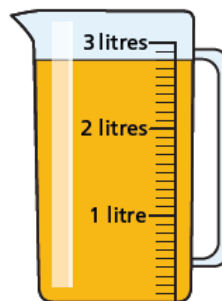
How did you work out what each interval on the scales represents?



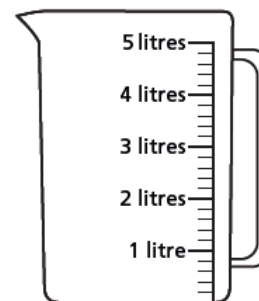
4 Mo has some orange juice in a jug.

He pours it into another jug.

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



What do you notice?



5 Different bottles hold different amounts of liquids.



Dexter

Eva



Who has more liquid? Circle your answer.

Dexter

Eva

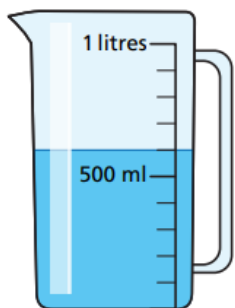
they have the same

Talk about it with a partner.

Measure capacity (2)

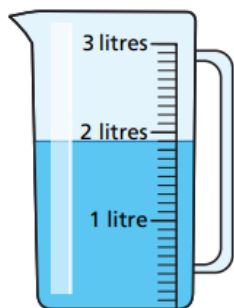
1 How much water is there in each jug?

a)



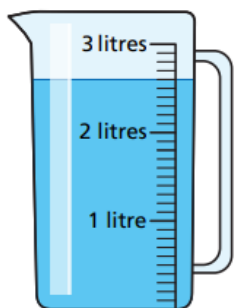
600 ml

c)



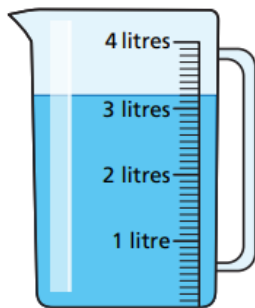
1 l and 900 ml

b)



2 l and 600 ml

d)



3 l and 200 ml

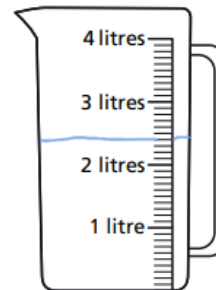
2 The capacity of each bottle is shown on the label.

Each bottle is full of liquid.

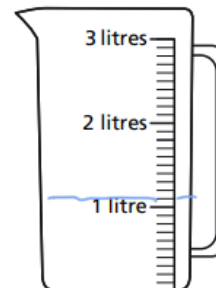
The bottles are emptied into jugs.

Draw a line on each jug to show where the liquid will reach.

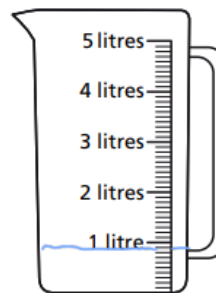
a)



b)

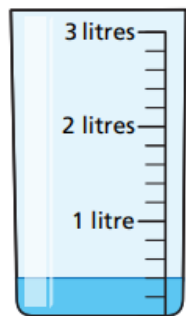


c)



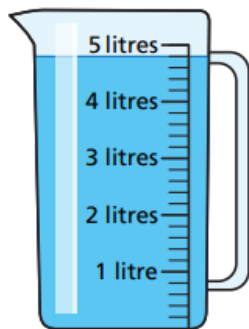
3 How much water is there in each container?

a)



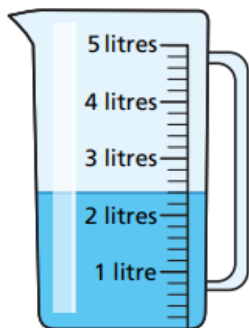
400 ml

c)



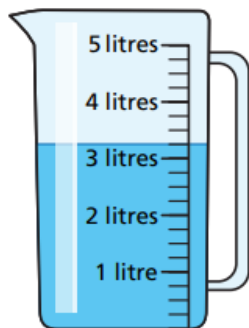
4 l and 800 ml

b)



2 l and 400 ml

d)



3 l and 250 ml

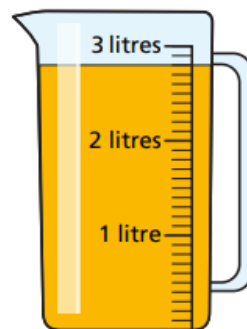
How did you work out what each interval on the scales represents?



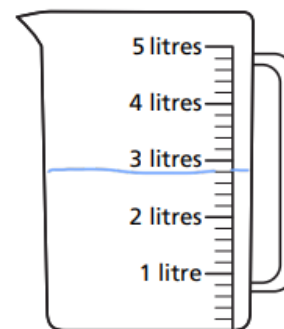
4 Mo has some orange juice in a jug.

He pours it into another jug.

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



What do you notice?



5 Different bottles hold different amounts of liquids.



Dexter

Eva



Who has more liquid? Circle your answer.

Dexter

Eva

they have the same

Talk about it with a partner.

They both have 1750 ml in them

Lesson 5

Happy Friday 😊

Can you complete the Friday Maths challenge?

<https://whiterosemaths.com/homelearning/year-3/>

Try questions 1 - 4





**Useful videos to help you with measuring mass and capacity:
Please copy them into your browser if they don't work 😊**

Capacity:

<https://www.bbc.co.uk/bitesize/topics/zt9k7ty/articles/zp8crdm>

Mass: These BBC Bitesize home learning links recap previous work on Mass from Year 2. They are really useful if you are find things tricky:

<https://www.bbc.co.uk/bitesize/articles/zcdrsk7>

<https://www.bbc.co.uk/bitesize/articles/z3qk3j6>

Have a look at the activities on Education City for some more help.





Measuring mass

Key Vocabulary

mass

gram

kilogram

capacity

volume

millilitre

litre

lighter

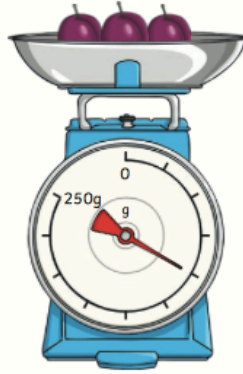
heavier

Measure and Compare Mass

Scales can be used to measure grams.

A gram is a unit of measurement that is used to measure the mass of something.

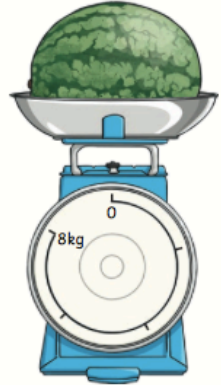
Grams can be written as **g**.



Scales can be used to measure kilograms.

A kilogram is a unit of measurement that is greater than a gram. It is also used to measure the mass of something.

Kilograms can be written as **kg**.



$$1000\text{g} = 1\text{kg}$$

To compare mass, we can use the words 'heavier' and 'lighter'.



There are lots of activities on the next few pages to help you with reading scales 😊

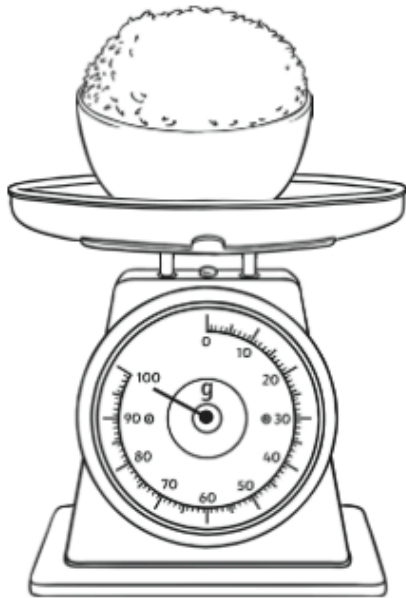
Practical activities to try at home (if and when you can):

- Measure the mass of different items in your house using scales. What is the heaviest item you can find? What is the lightest item you can find? Can you order the items from lightest to heaviest?
- Lots of you have sent in wonderful photos of your cooking/ baking. When it is convenient at home, make a cake – try measuring out the ingredients really carefully. This will help you to practise reading a scale!

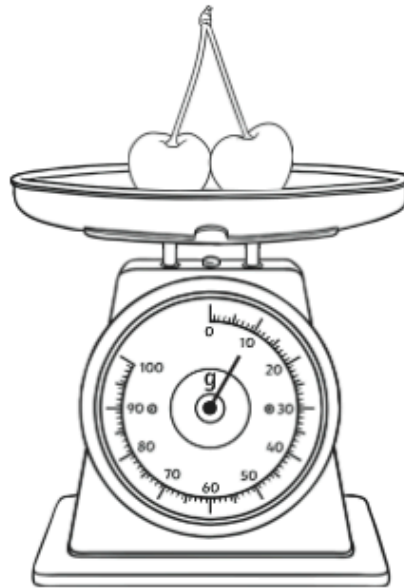


**Here are some of the items I weighed in my house.
I would love to see photos of what you find in your house or
the cakes you bake 😊**

How Many Grams?



_____ g

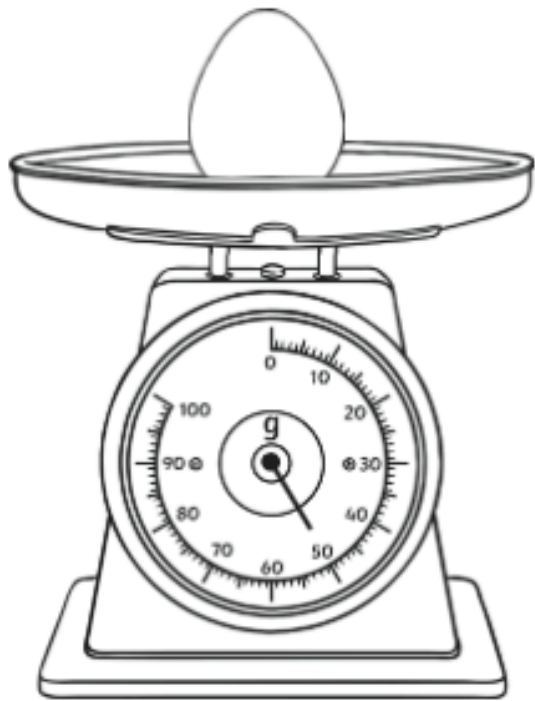


_____ g

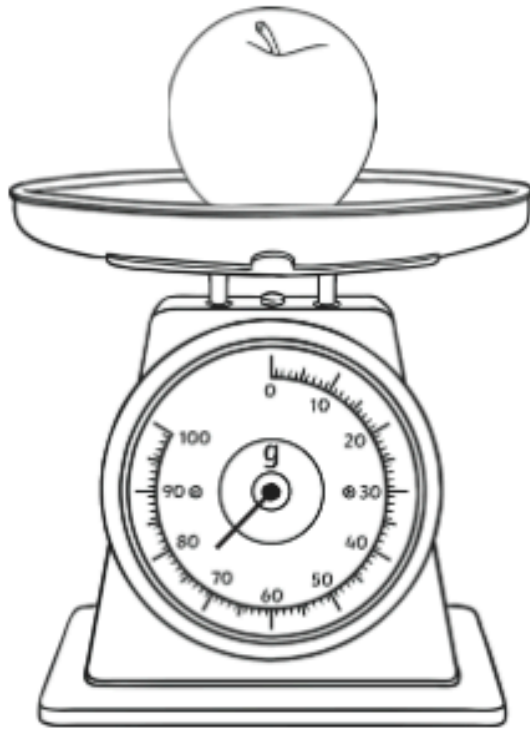


_____ g

Can you find anything in your house that weighs the same?



_____ g



_____ g

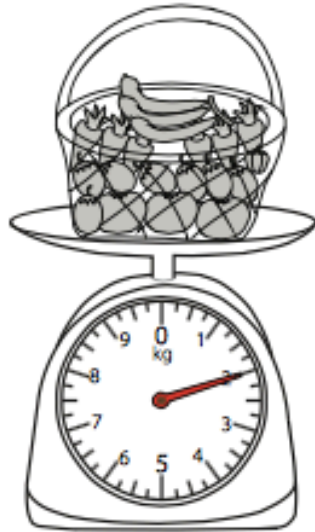


_____ g

Can you find anything in your house that weighs the same?

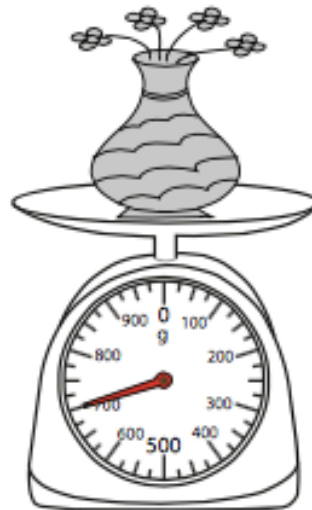
Measure the weight of each object.

1)



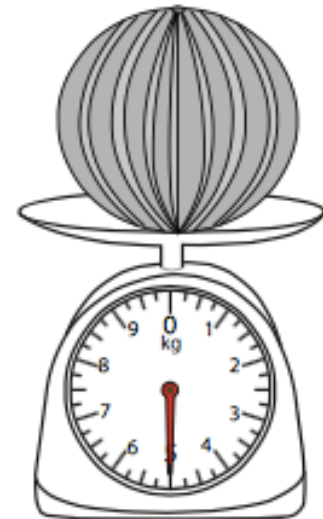
_____ kg

2)



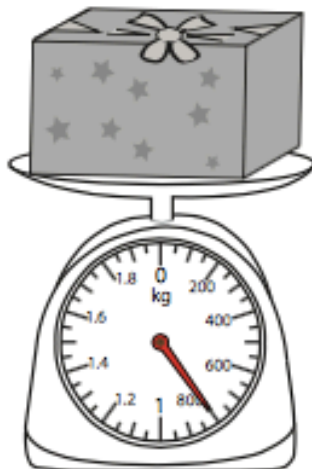
_____ g

3)



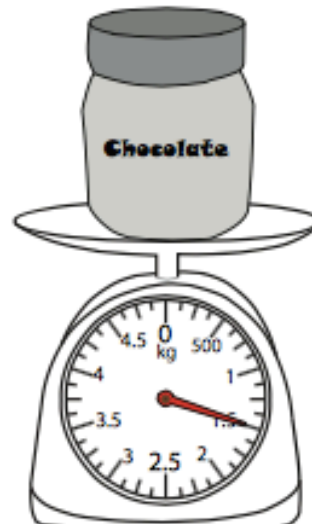
_____ kg

4)



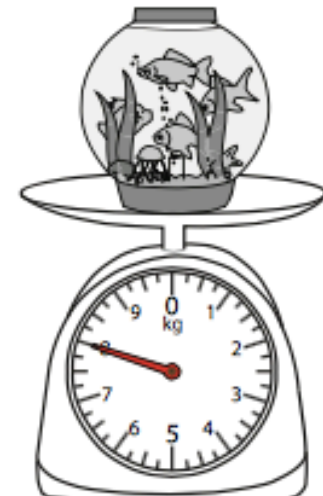
_____ g

5)



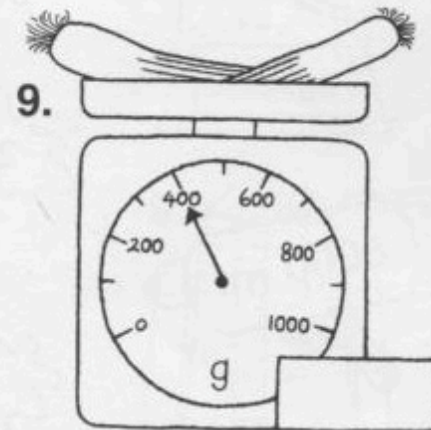
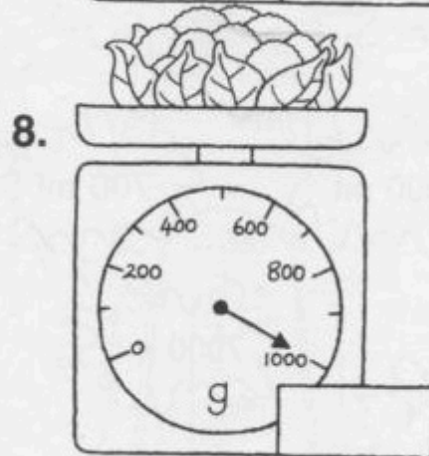
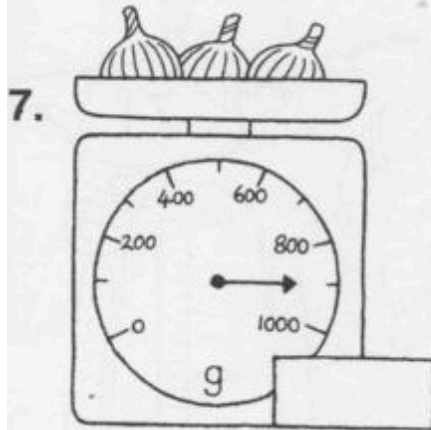
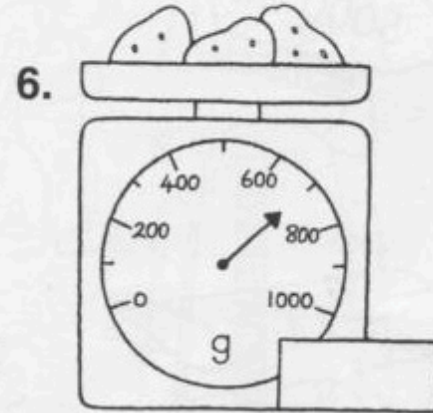
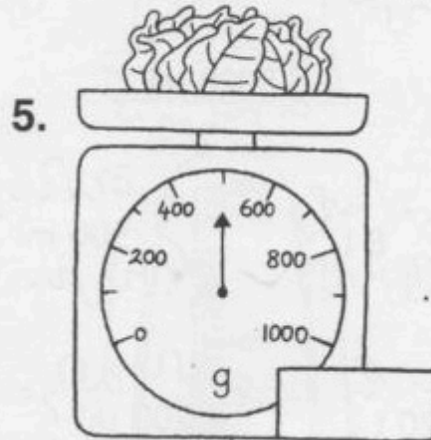
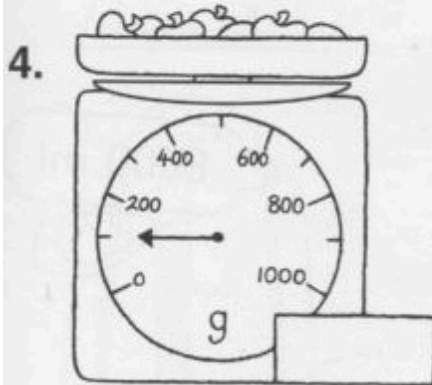
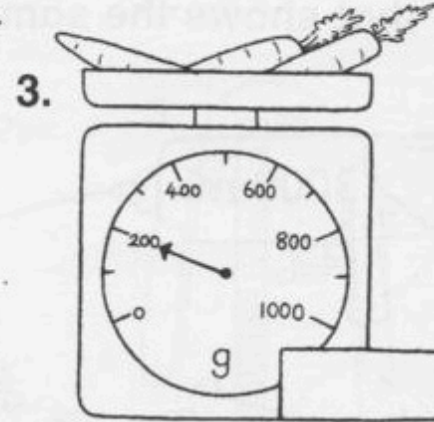
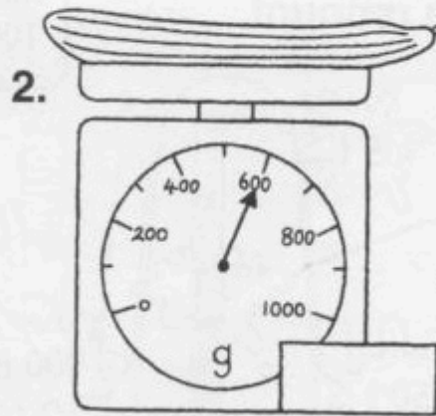
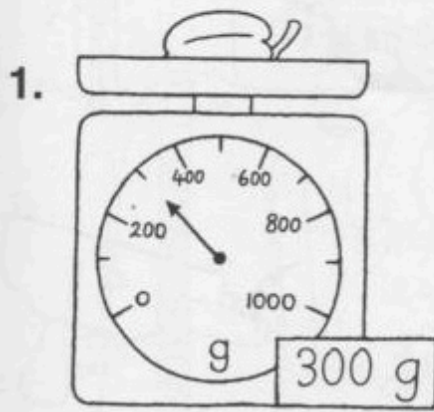
_____ kg

6)



_____ kg

• Read the scales. Write the mass of the vegetables.



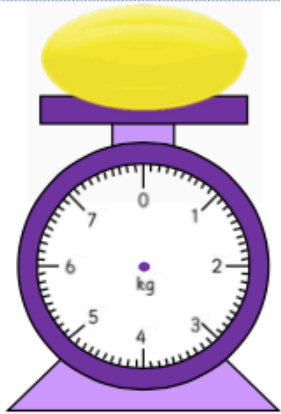
Draw an arrow on the scales to show the mass of each object.

TOP TIPS

Remember:

1000 g = 1 kg

500 g = $\frac{1}{2}$ kg



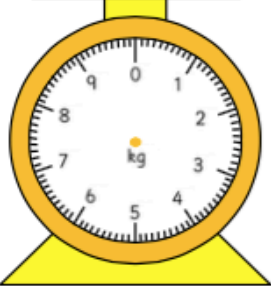
3 kg



5 kg 500 g



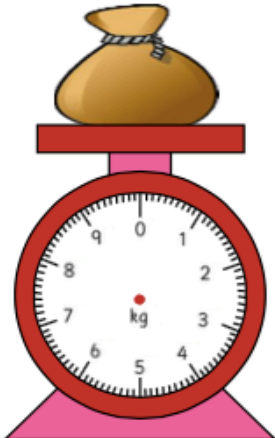
1 kg 500 g



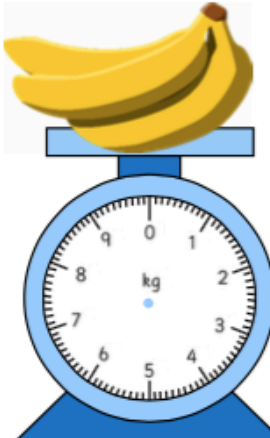
3 kg 500 g



8 kg 500 g



4 kg 500 g





Measuring capacity

Measure and Compare Capacity

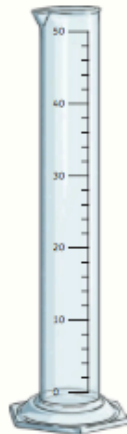
Capacity is the amount of liquid a container can hold.

Volume is how much liquid is in the container.

Measuring cylinders can be used to measure smaller volumes.

Smaller volumes are measured in millilitres.

Millilitres can be written as ml.



Measuring jugs can be used to measure larger volumes.

Greater volumes are measured in litres.

Litres can be written as l.

$$1000\text{ml} = 1\text{l}$$



To compare capacities, we can use the word 'full'.

Practical activities to try at home (if and when you can):

- Look around your house. How many items can you find that are measured in litres? How many items can you find that are measured in millilitres?
- Can you order them from biggest to smallest?
- Pour some water into different sized cups/ glasses. Estimate (have a clever guess) about how much liquid is in each one. Check your estimate by measuring it in a measuring jug.

Challenge:

How many jugs would it take to fill a bathtub?

How many teaspoons would it take to fill a jug?

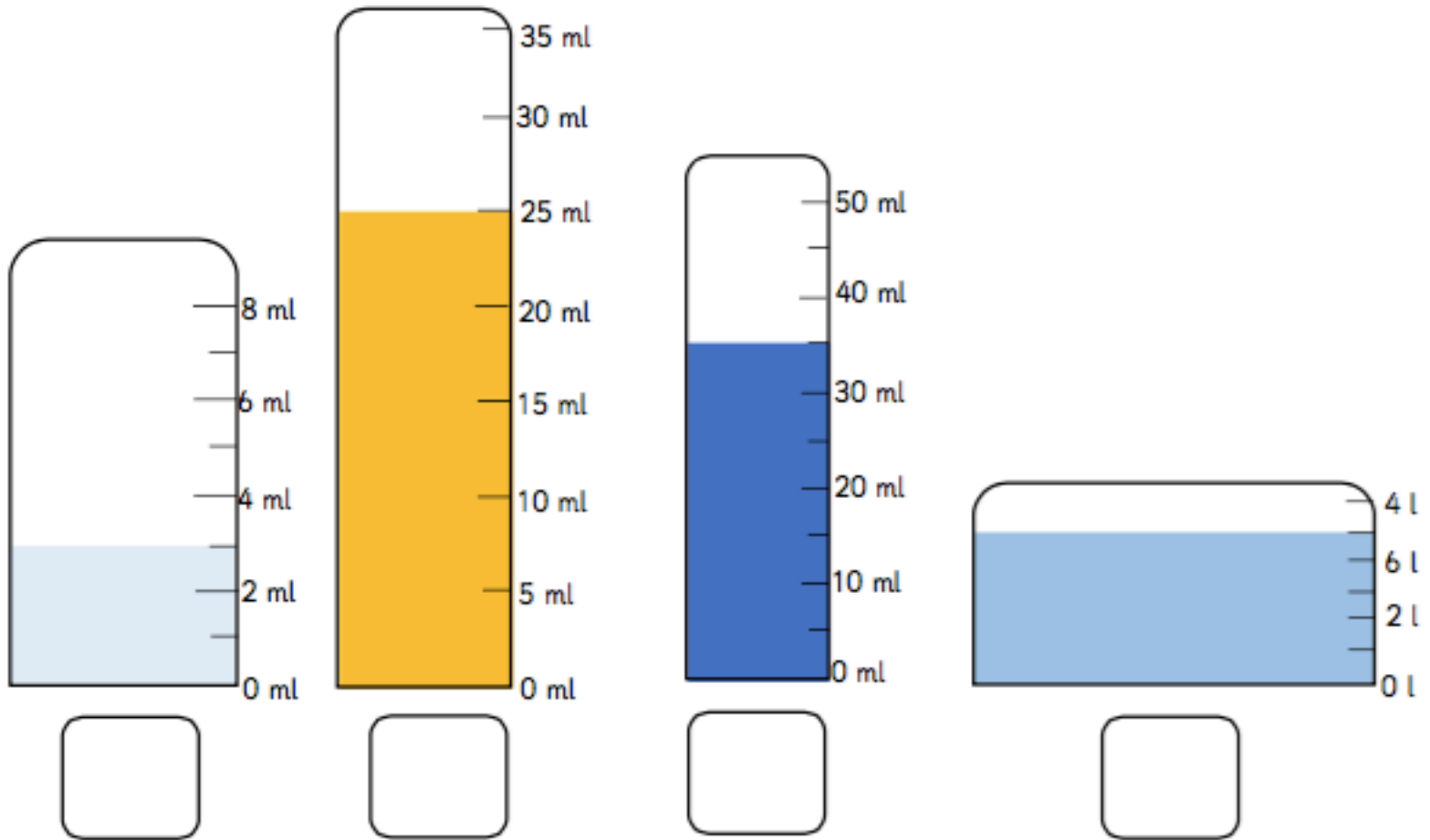
How many teaspoons will it take to fill a bathtub?

**I would love to see photos of what you get up to. Please send them into:
info@st-jo-st.dudley.sch.uk**



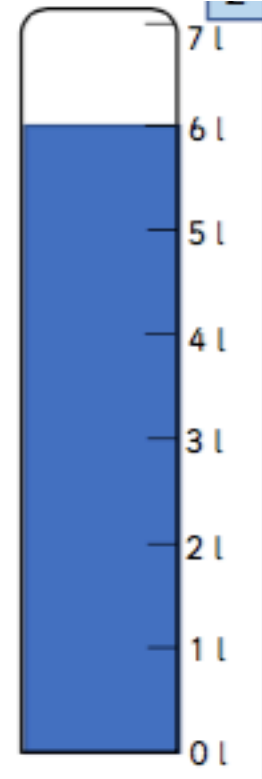
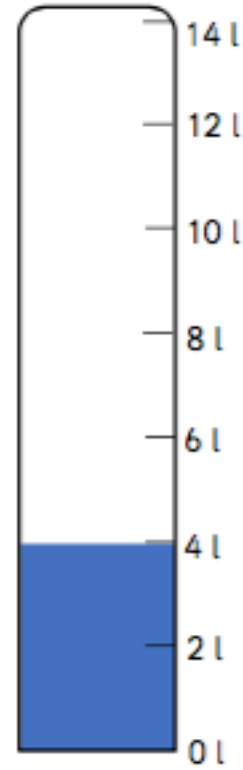
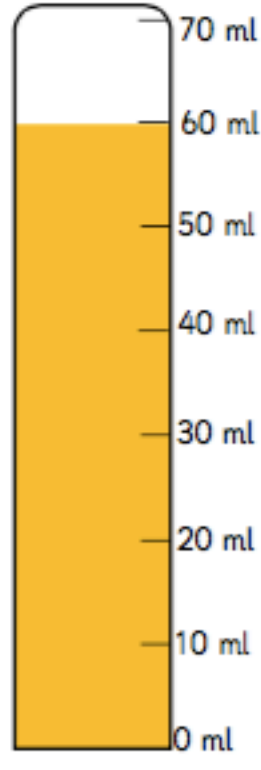
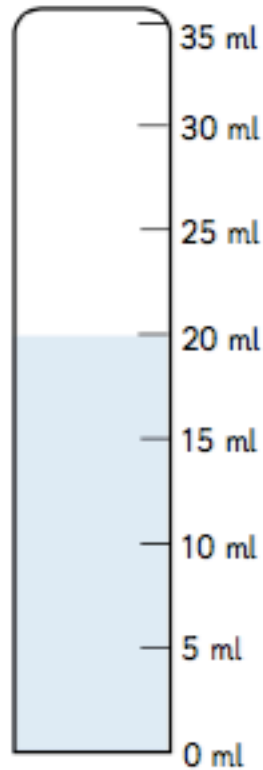
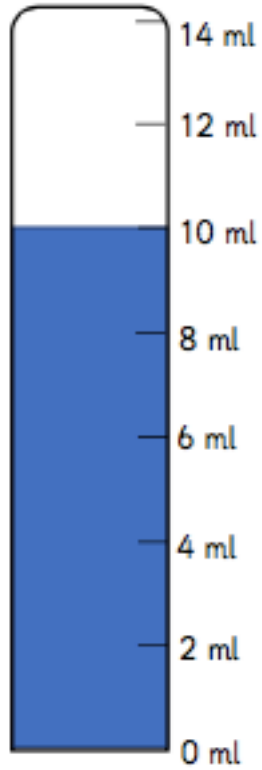
How much liquid is in each container?

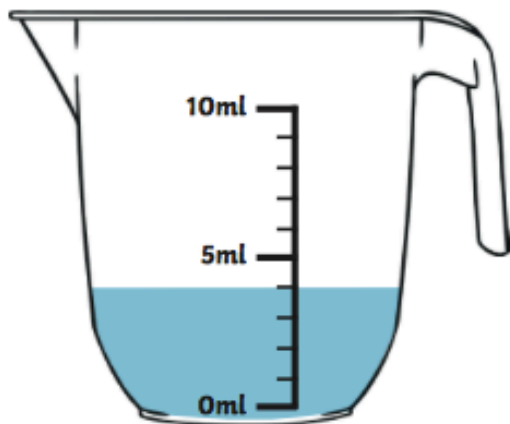
Remember to write the unit (ml)



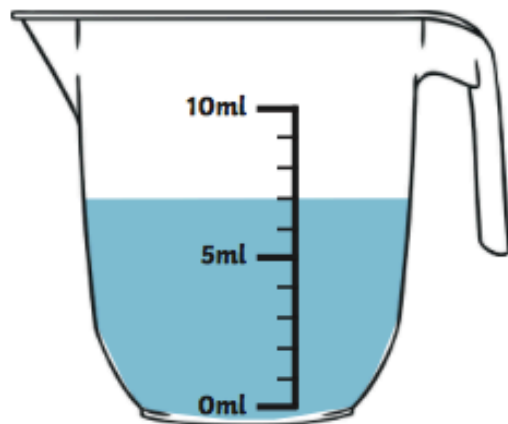
How much liquid is in each container?

Remember to write the unit (ml)

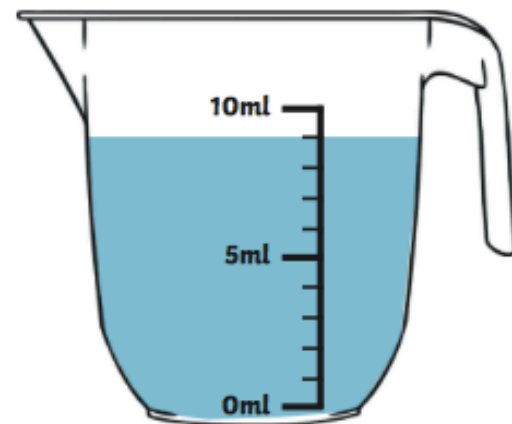




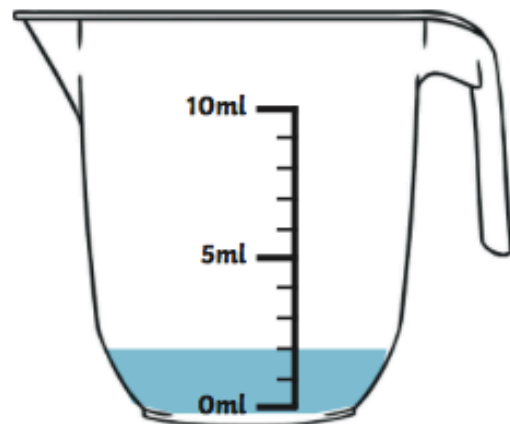
1. _____ ml



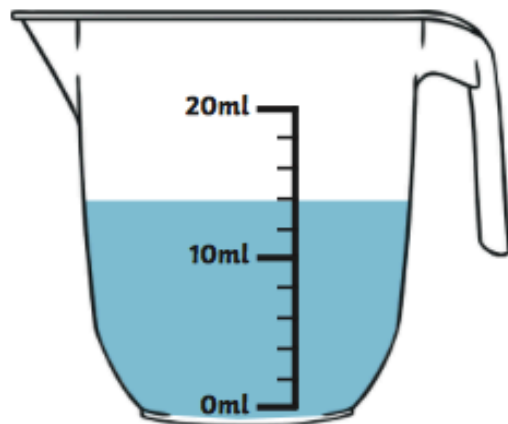
2. _____ ml



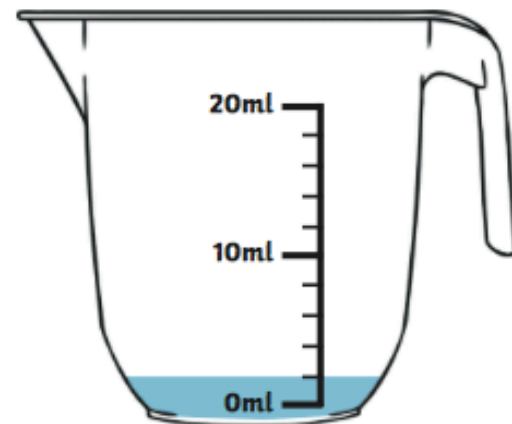
3. _____ ml



4. _____ ml

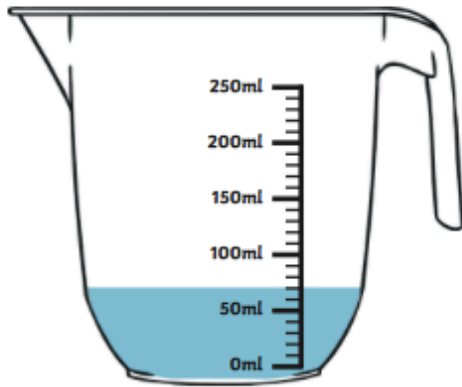


5. _____ ml

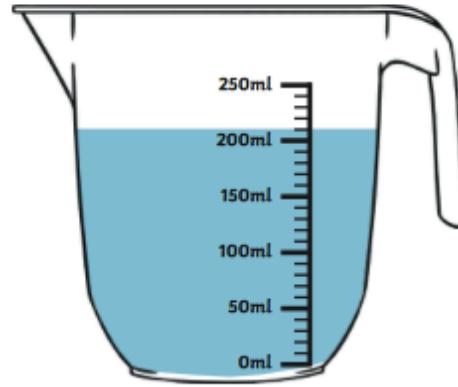


6. _____ ml

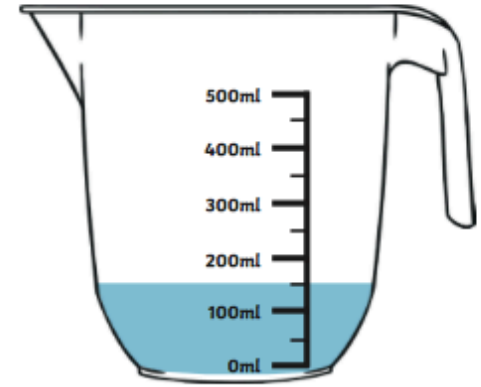
How much water is there in each jug?



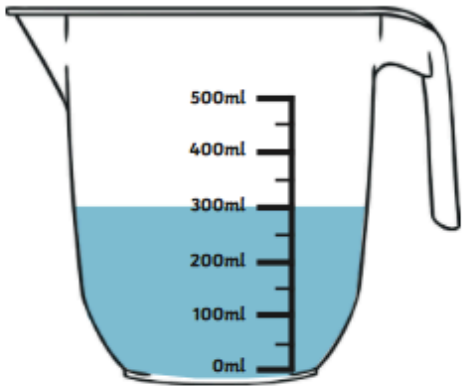
1. _____ ml



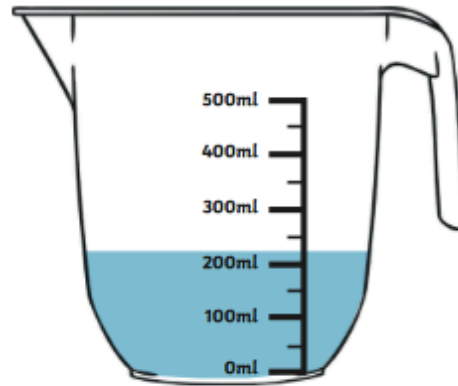
2. _____ ml



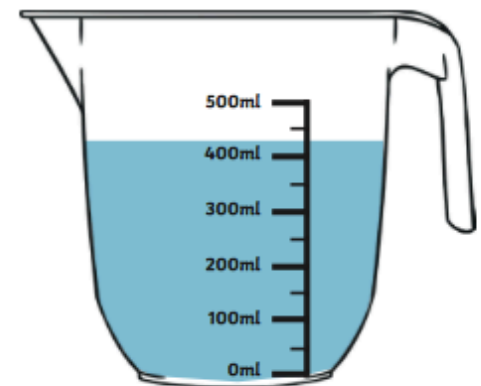
3. _____ ml



4. _____ ml



5. _____ ml



6. _____ ml

YOU
ARE
AWESOME

Math **1 2 3 4** Genius

You are all superstars ☺
Thank you for working so hard,
Year 3.



Send in any photos of the work
you do to:

info@st-jo-st.dudley.sch.uk

I would love to see what you get
up to.