

Maths

Hi Year 3,

Maths this week we are looking at 'Mass and Capacity'. You can find the videos and teaching material under summer term Week 11 recourses on the website. The activities are no longer on the website but we have put them on this document.

You can find the activities and teaching materials by following the link - <https://whiterosemaths.com/homelearning/year-3/>

Lesson 1 - Measure mass

Lesson 2 - Compare mass

Lesson 3 - Add and subtract mass

Lesson 4 - Measure capacity

Lesson 5 - Maths Challenges

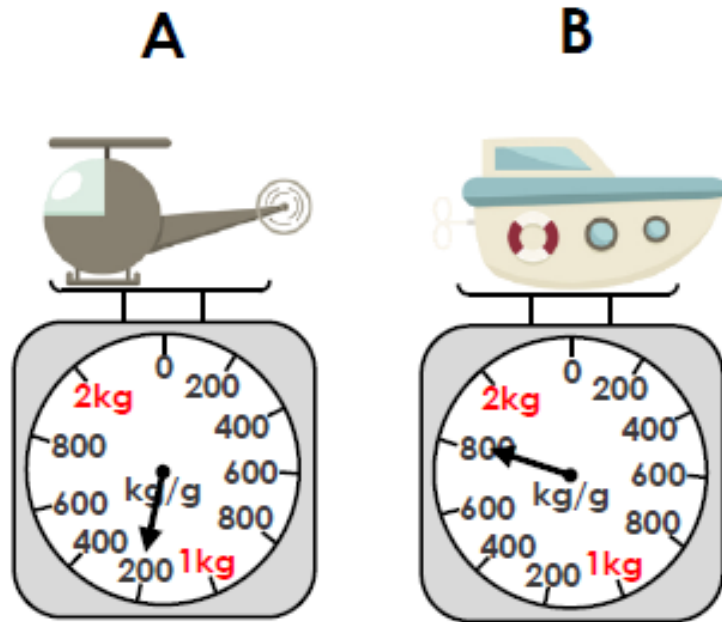
Try your best and let us know if you have a problem.

If you fancy a challenge, there are some mathematical challenges below.

The Year 3 Staff 😊

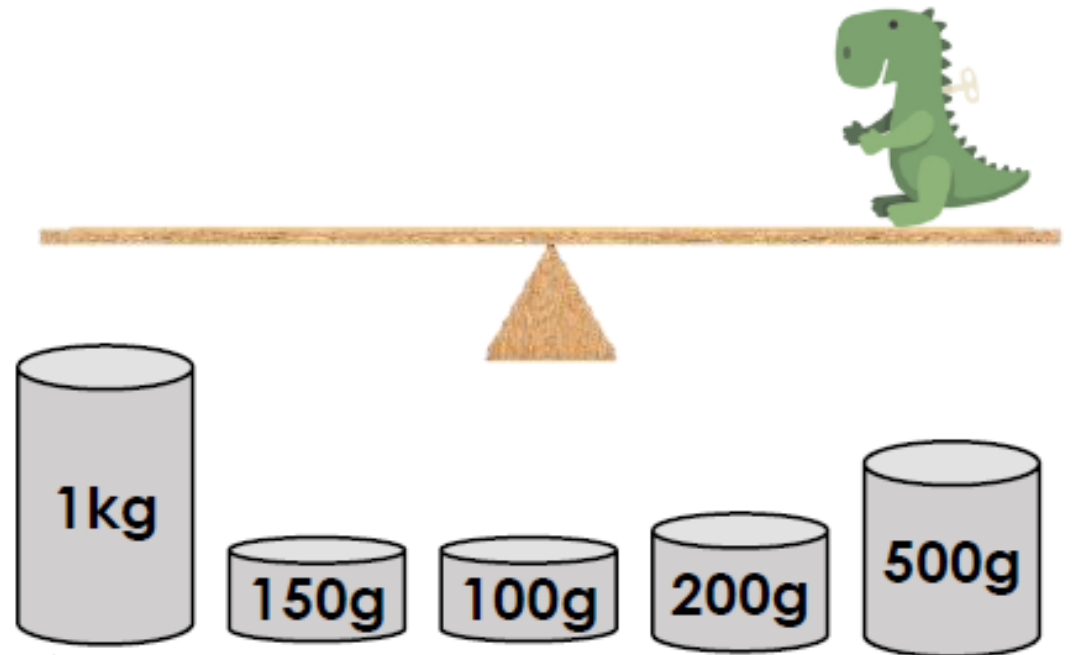
Maths challenge 1: Measure Mass

Which scale shows the heaviest mass?



Explain your answer.

Which weights will balance the scales if the dinosaur weighs 1kg and 250g?



Maths challenge 2: Compare Mass

The ball weighs more than ten beetroots but less than the bucket and spade. Its weight is a multiple of 5. What could the ball weigh?



25g

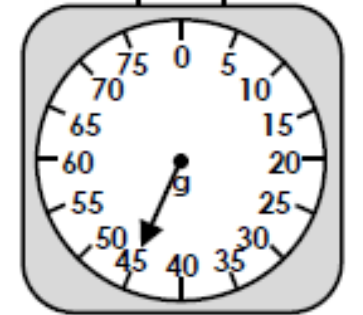
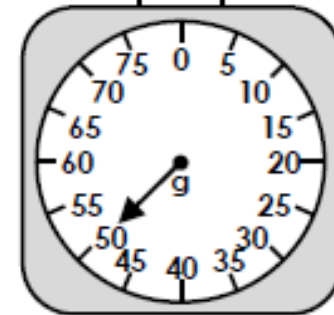


300g

Write down 3 possibilities.



If the strawberries weigh 5g each and a banana weighs 10g each, how much does one orange weigh?



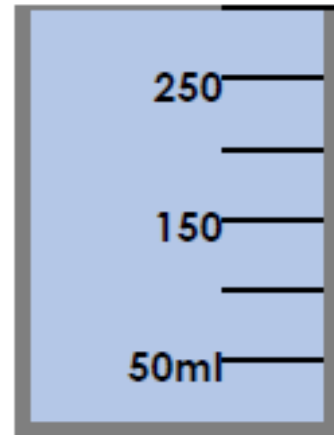
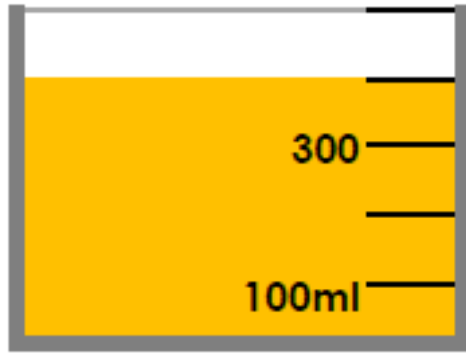
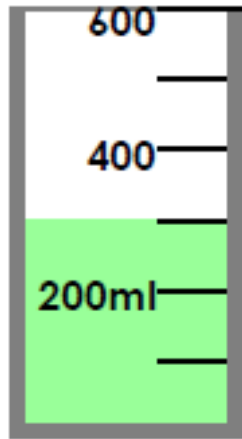
Maths challenge 3: Measure Capacity

Which is the odd one out? Explain your answer.

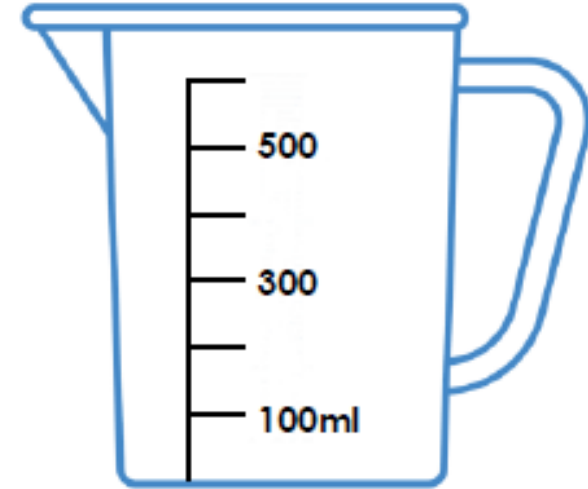
A

B

C



Lewis has poured water into the measuring jug below. The volume is more than 100ml but less than 500ml.

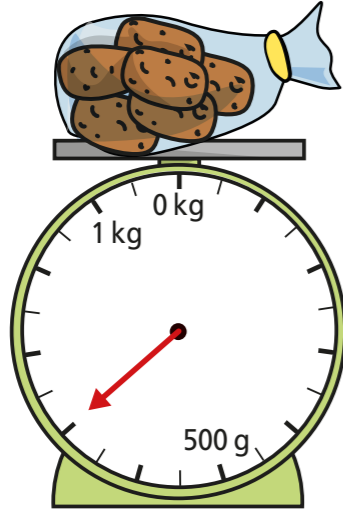


How much water could he have?
Use arrows to label 3 possible answers.

Measure mass (2)

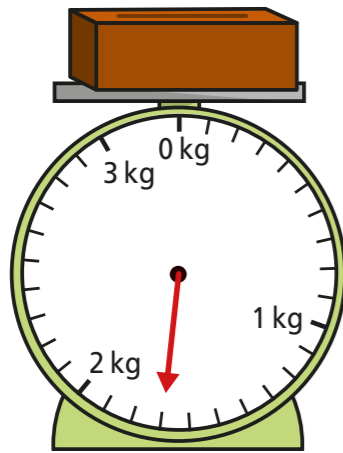
1 What is the mass of each object?

a)



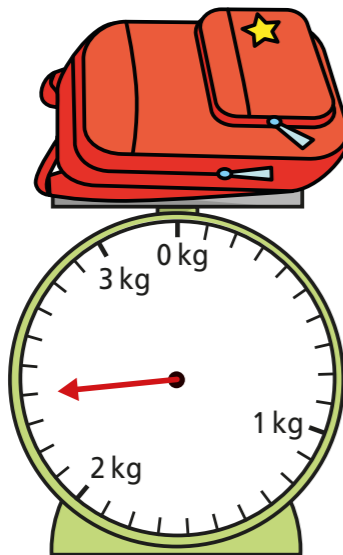
g

b)



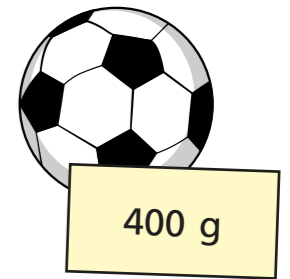
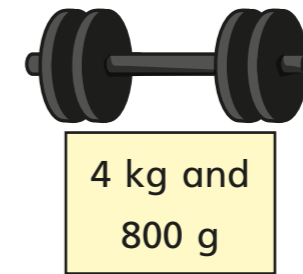
kg and g

c)



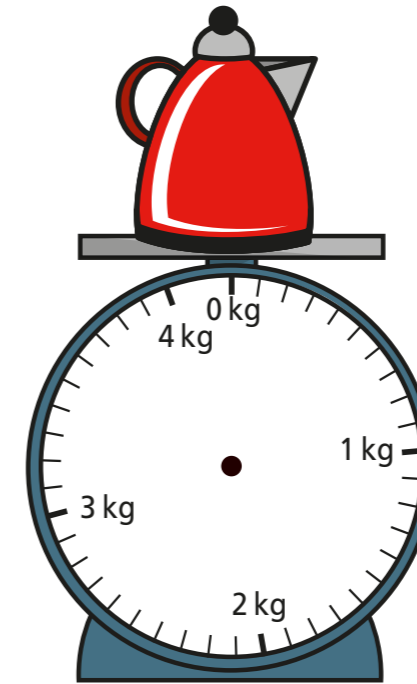
kg and g

2 The mass of each object is shown on the label.

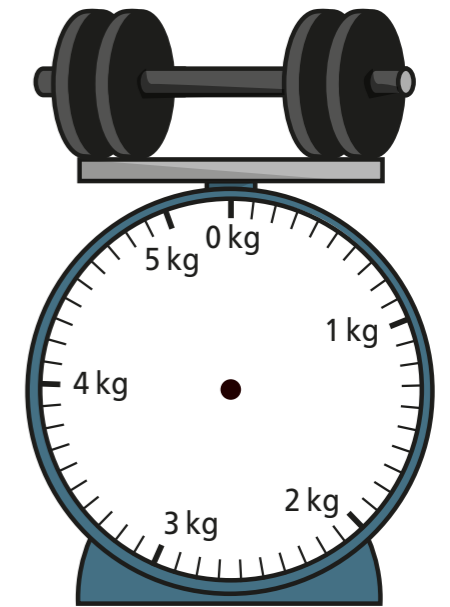


Draw on the scales to show the mass of each object.

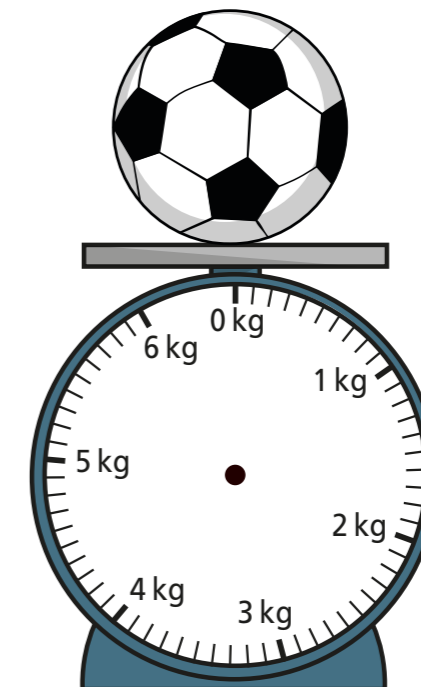
a)



b)




c)



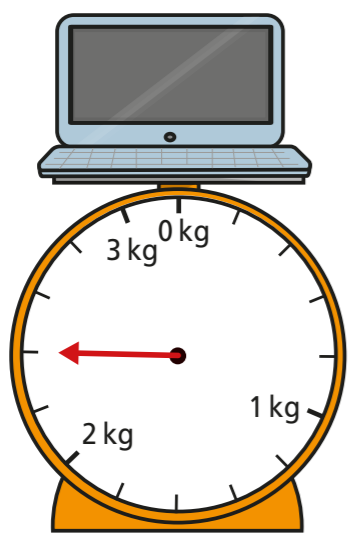
3 What is the mass of each object?

a)



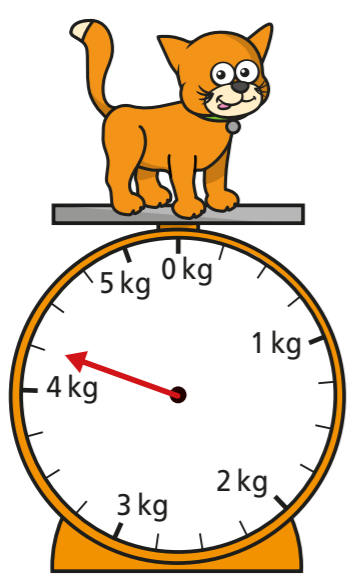
□ g

b)



□ kg and □ g

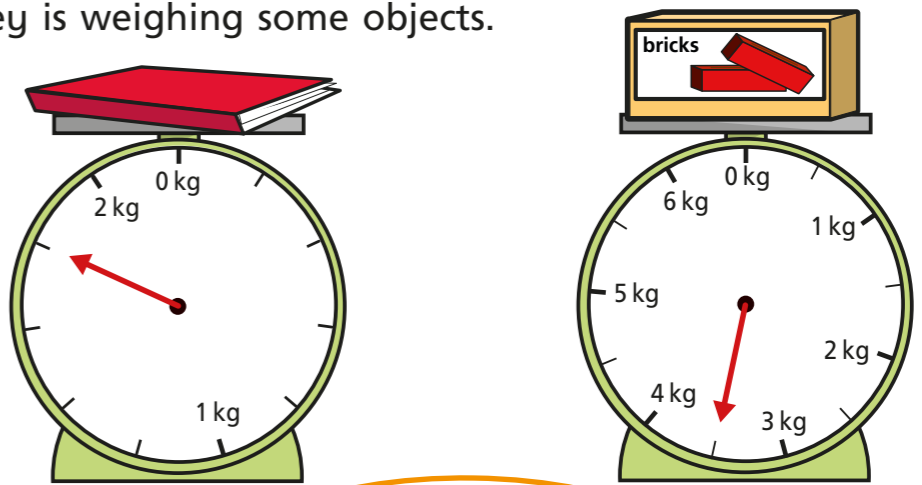
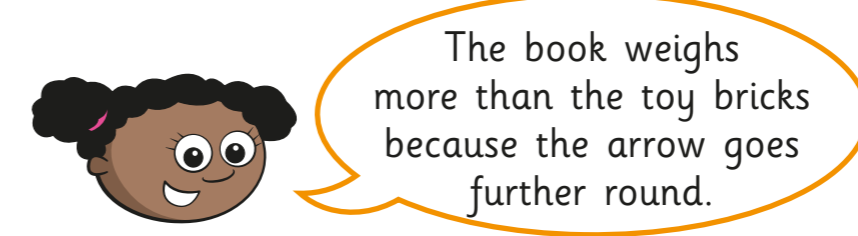
c)



□ kg and □ g

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

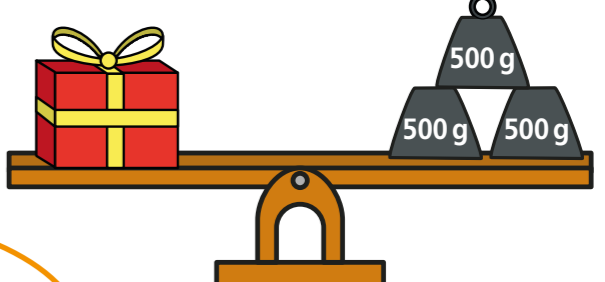
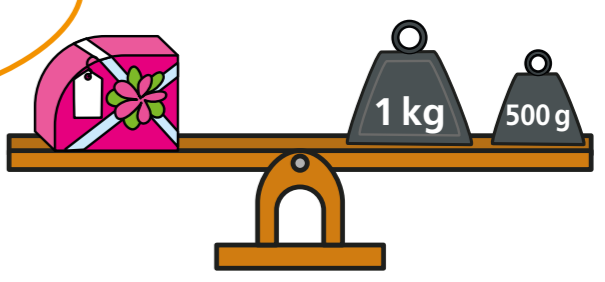

4 Whitney is weighing some objects.

The book weighs more than the toy bricks because the arrow goes further round.

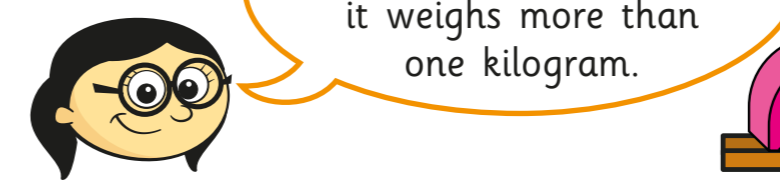
Do you agree with Whitney? _____
Why?

5 Amir and Annie each have a present. They are working out the mass of their presents using weights.

Our presents weigh the same.

Amir



No they do not. Mine is heavier because it weighs more than one kilogram.

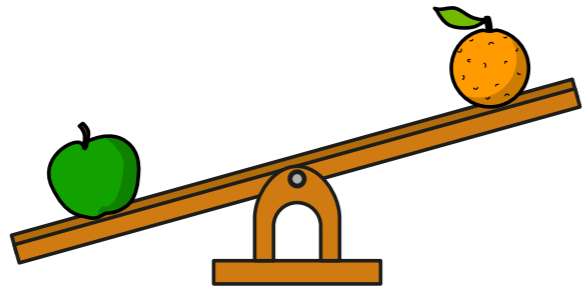
Annie

Who is correct? _____
How do you know?

Compare mass

1 Write **heavier** or **lighter** to complete the sentences.

a)



The apple is _____ than the orange.

The orange is _____ than the apple.

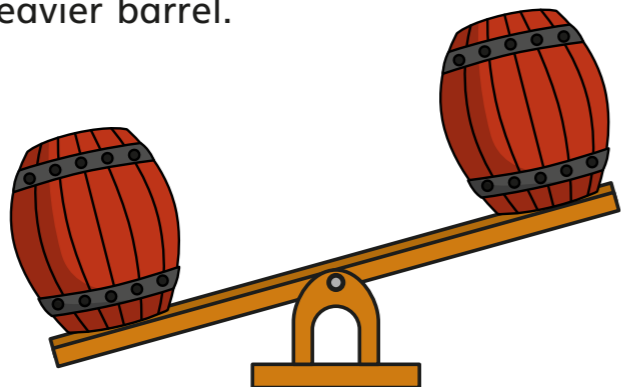
b)



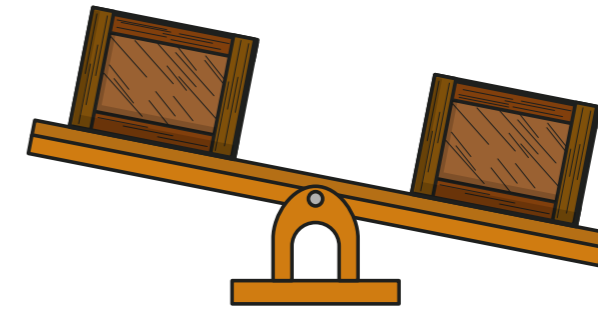
The ball is _____ than the bat.

The bat is _____ than the ball.

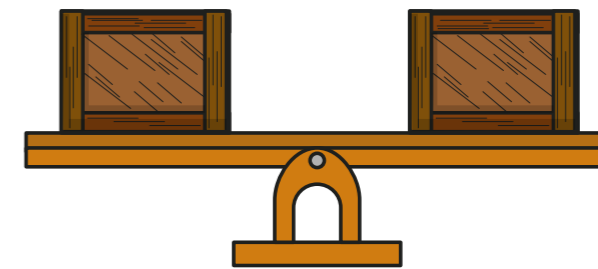
2 a) Tick the heavier barrel.



b) Tick the lighter crate.



c) What can you say about the mass of the two crates?



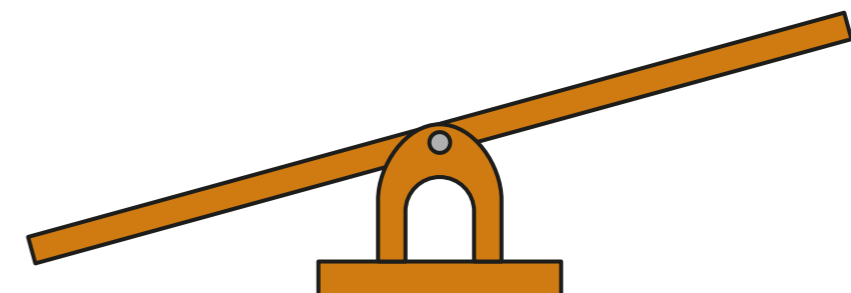
3 The mass of a tin and a book is shown.



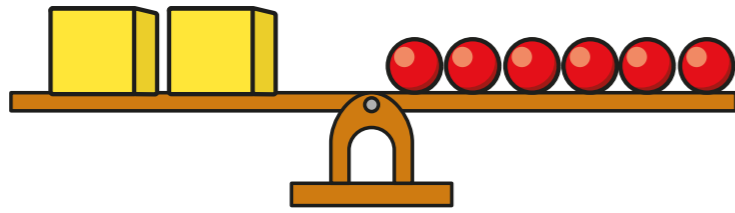
Scott puts the tin and book on the scales.

One side of the scales goes down.

Draw the book and the tin on the scales to show this.



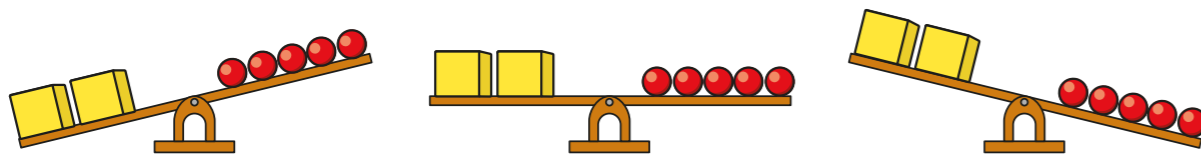
- 4 The scales show that 2 cubes balance 6 spheres.



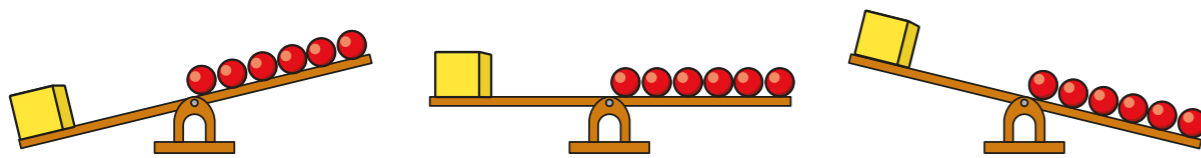
Tommy is removing shapes to see what happens to the scales.

Tick the correct image in each part.

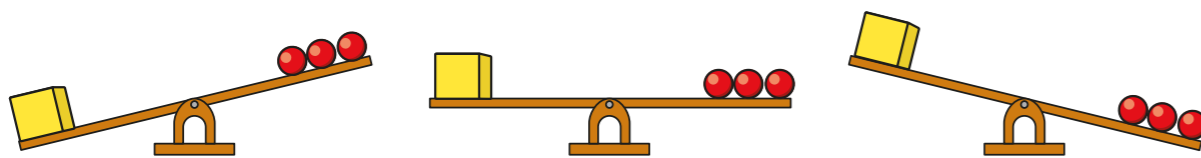
a)



b)



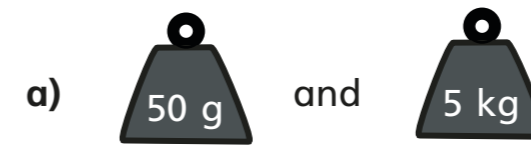
c)



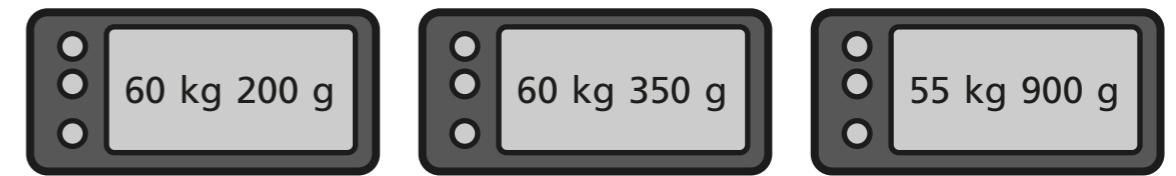
Talk about your answers with a partner.



- 5 Circle the greater mass in each pair.

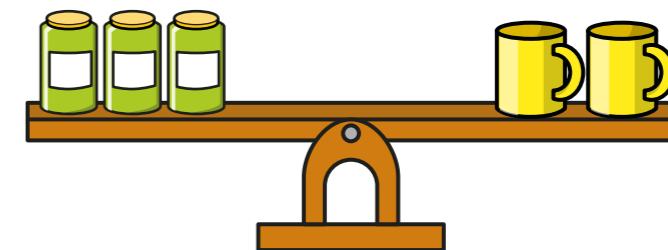


- 6 Three weights are shown on the scales.



Write the weights in order, starting with the lightest.

- 7



Is a jar or a mug heavier? _____

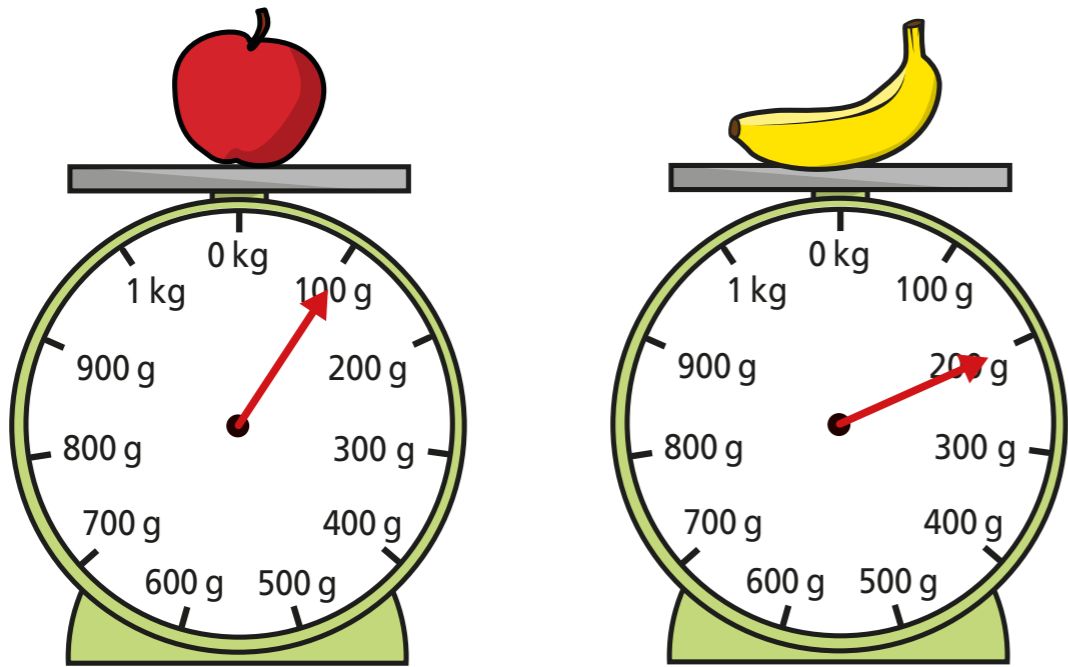
How do you know?

Talk about it with a partner.



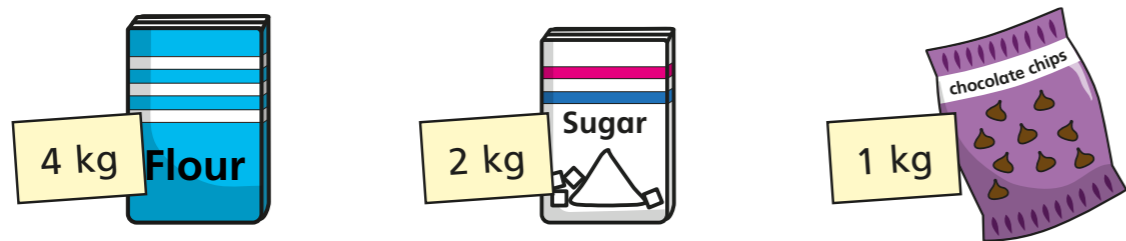
Add and subtract mass

1 Teddy is measuring the weight of some fruit.



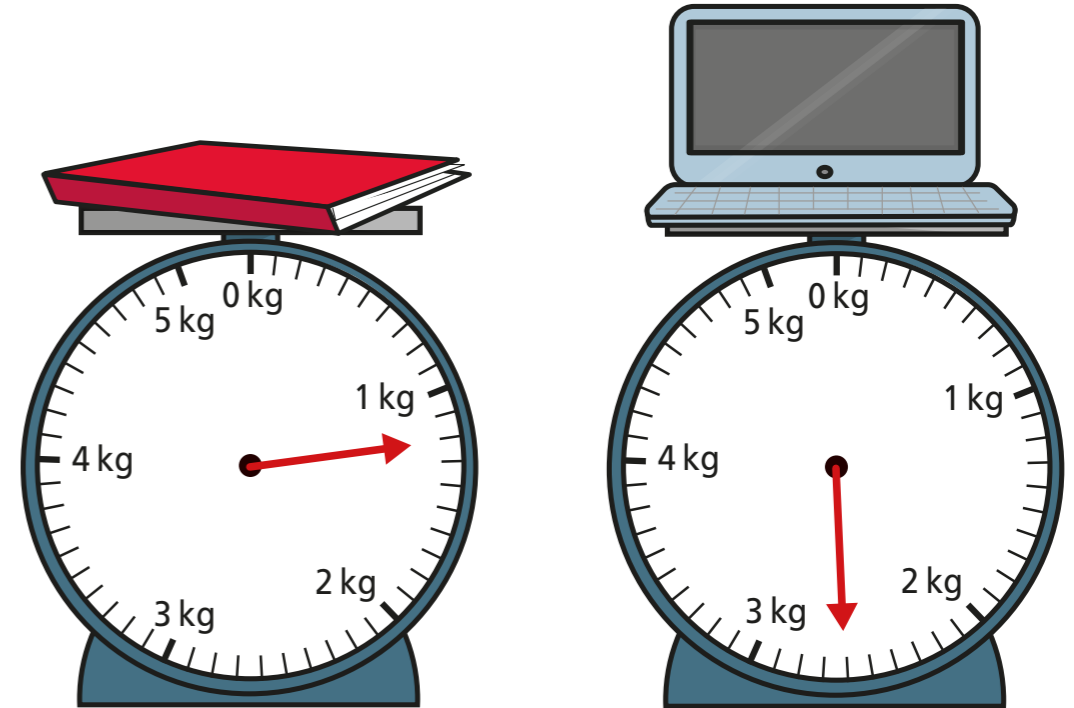
- a) What is the weight of the apple? g
- b) What is the weight of the banana? g
- c) Teddy puts both pieces of fruit on the same scale.
What is the total weight of the apple and the banana? g

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.

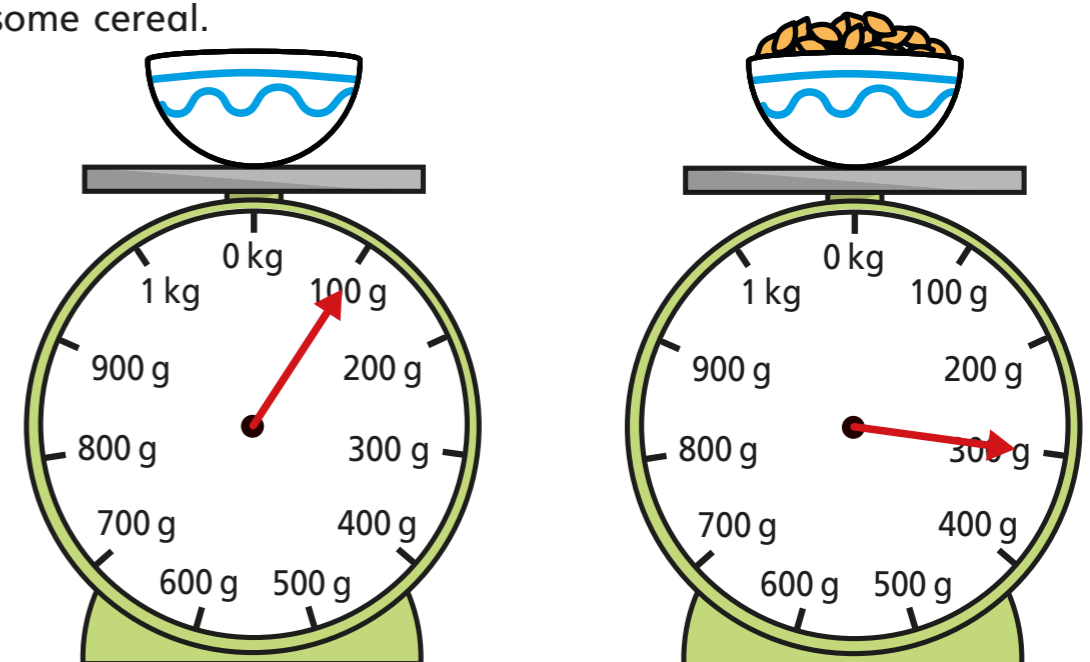


Ron puts both objects on the same scale.

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

- 5 A dog weighs 8 kg and 200 g when it is 8 weeks old.
The same dog weighs 12 kg and 900 g when it is 12 weeks old.

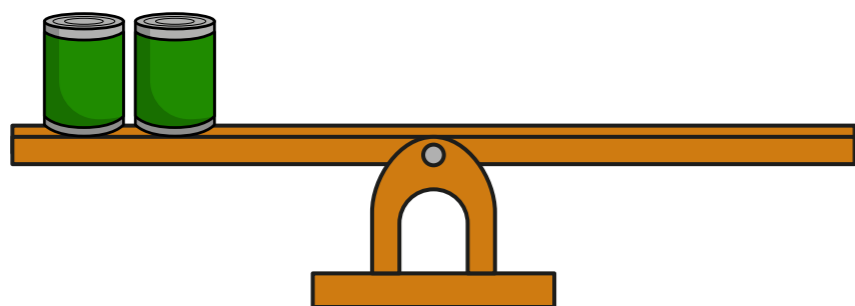
What is the difference in the dog's weight between 8 and 12 weeks?

kg and g

- 6 The mass of a tin is 450 g.
The mass of a book is 300 g.



Draw books on the scales to balance the tins.



- 7 Complete the number sentences.

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

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

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

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

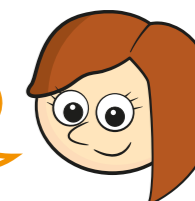
e) $1 \text{ kg} - \text{ g} = 200 \text{ g}$

- 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.

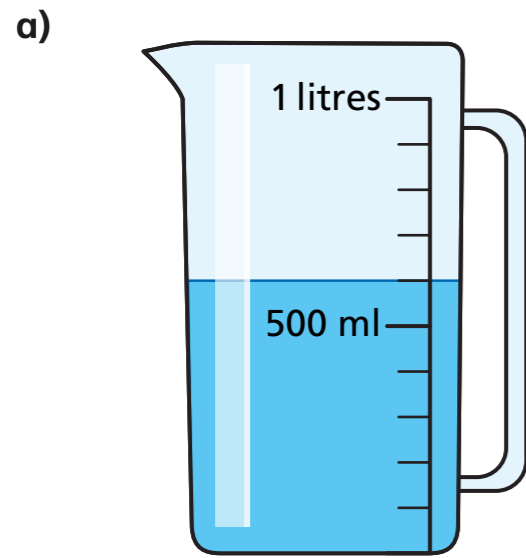
Rosie

Who is correct? _____

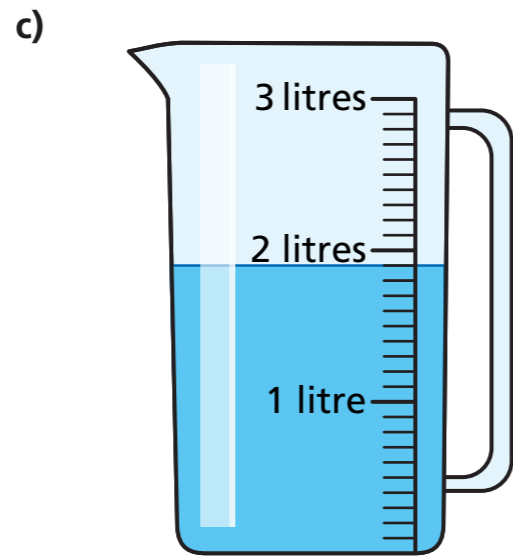
Talk about it with a partner.

Measure capacity (2)

1 How much water is there in each jug?



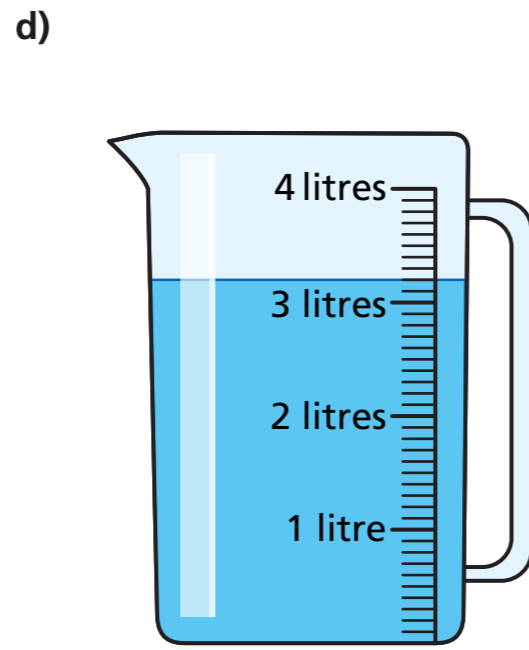
ml



l and ml



l and ml

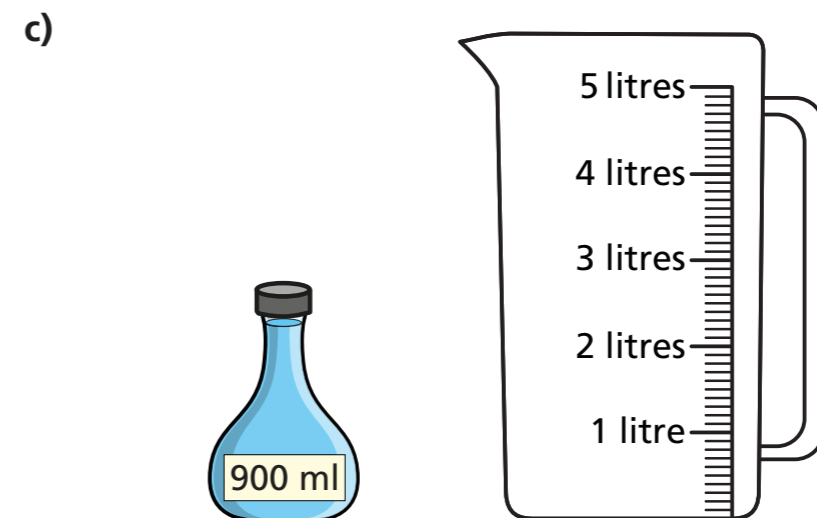
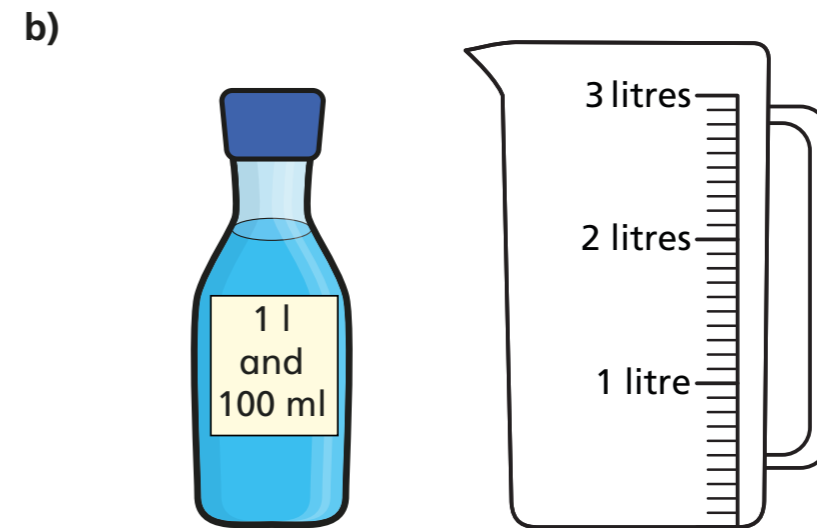
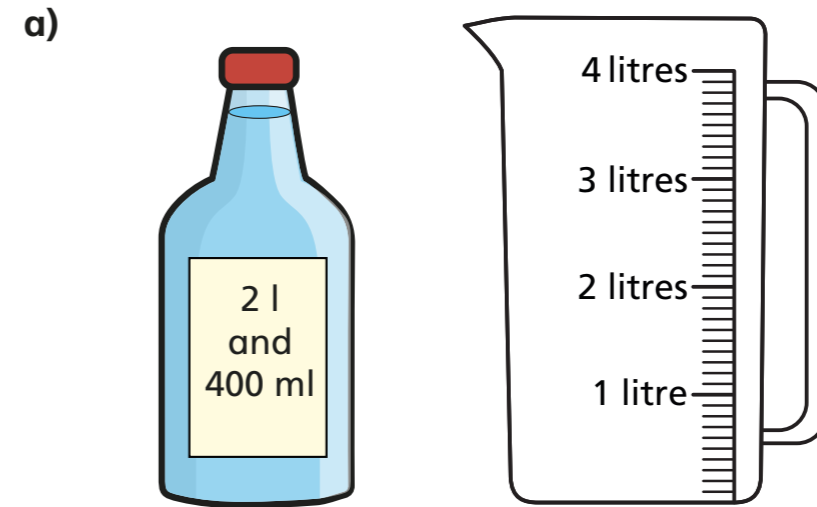


l and ml

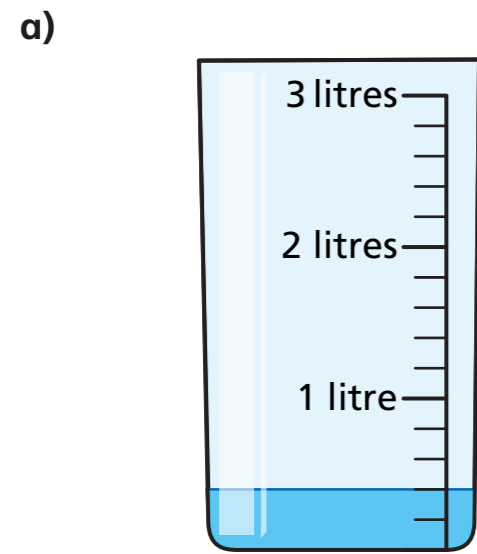
2 The capacity of each bottle is shown on the label.
Each bottle is full of liquid.

The bottles are emptied into jugs.

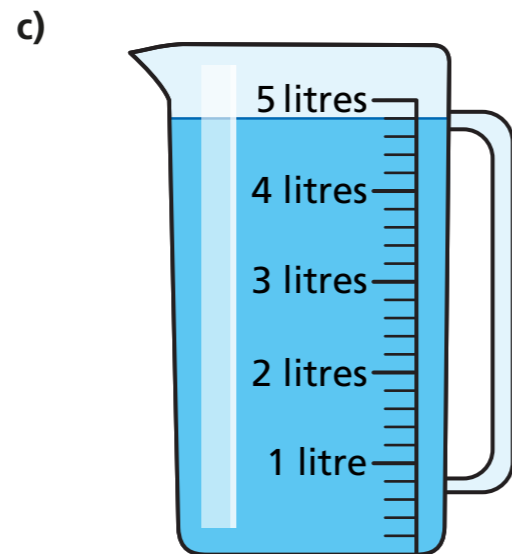
Draw a line on each jug to show where the liquid will reach.



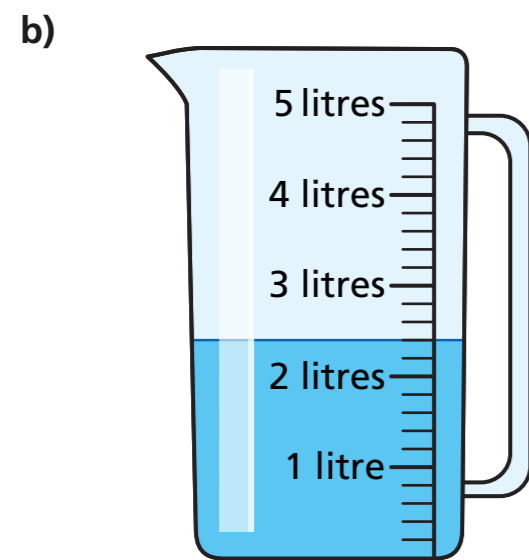
3 How much water is there in each container?



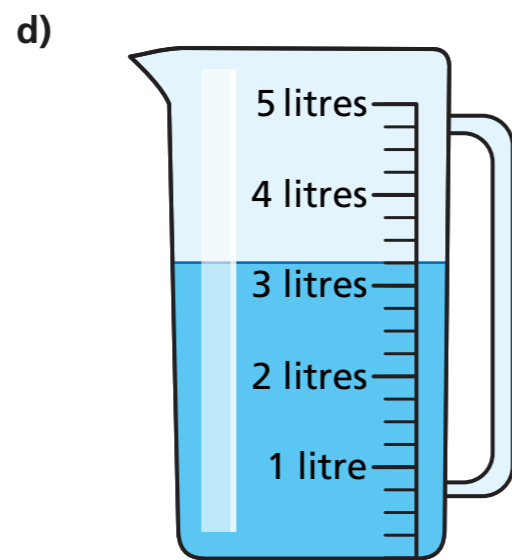
ml



l and ml



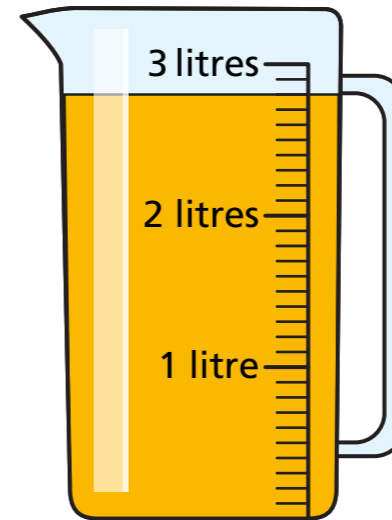
l and ml



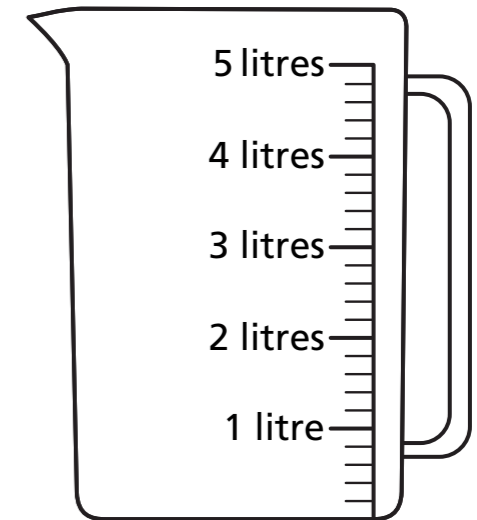
l and ml

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.