

# Each day.....



Practice times tables for 10 minutes using:

<https://www.timestables.co.uk/>

<https://www.topmarks.co.uk/maths-games/hit-the-button>

or write some questions on paper to answer.

You can recap addition and subtraction using the website below.....This will help you with this week's learning.

<https://www.bbc.co.uk/bitesize/topics/zy2mn39/articles/zc78srd>

04/05/2020

L.O: To compare mass.

Which is heavier, grams or kilograms?



Discuss.

What would be measured in grams?

What would be measured in kilograms?

Recap:

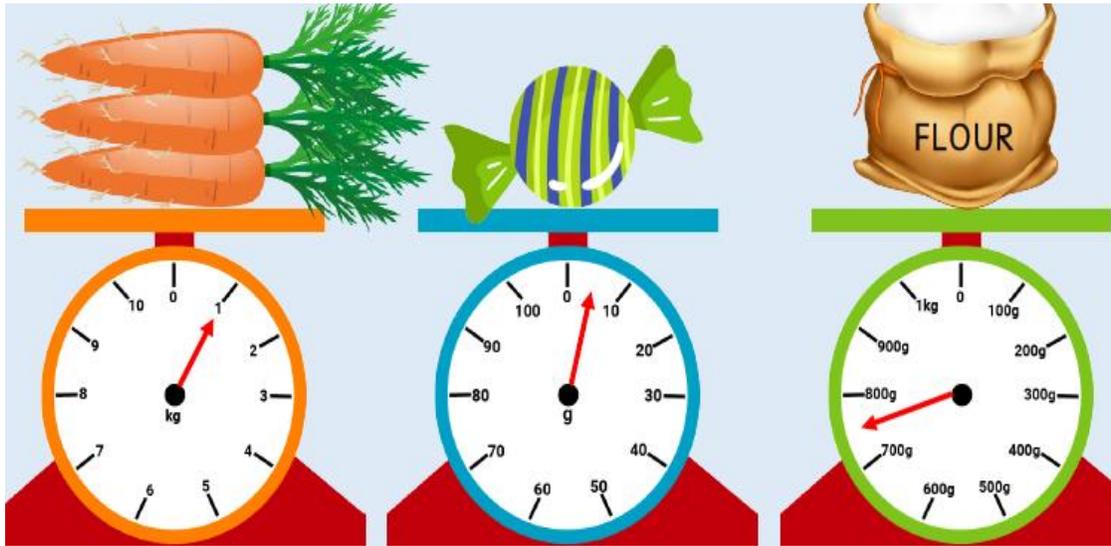
Mass is the weight of something- how heavy an object is.

We mainly use kilograms and grams to measure mass but there are other units of measure as well.

1 kilogram = 1000 grams.

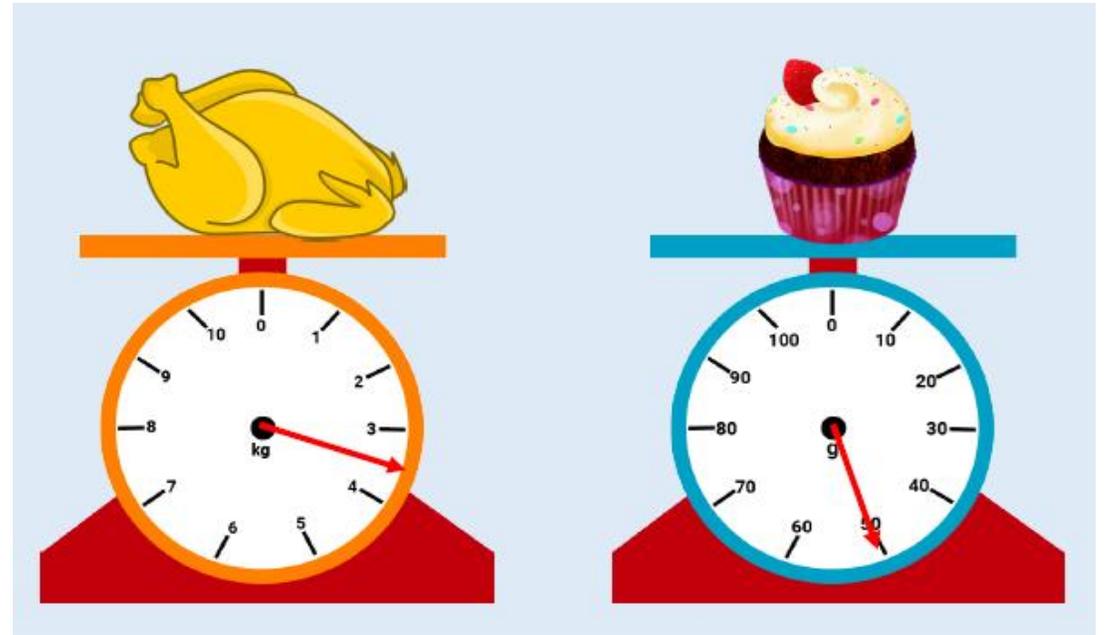
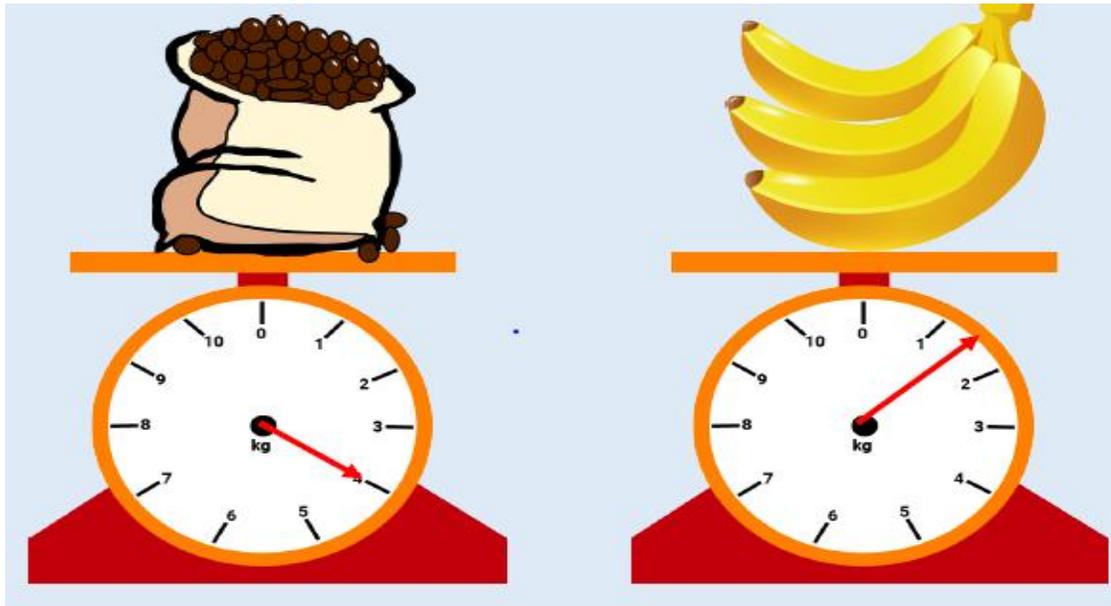
Find 3 items in your house that you would weigh in kilograms.

Find 3 items in your house that you would weigh in grams.

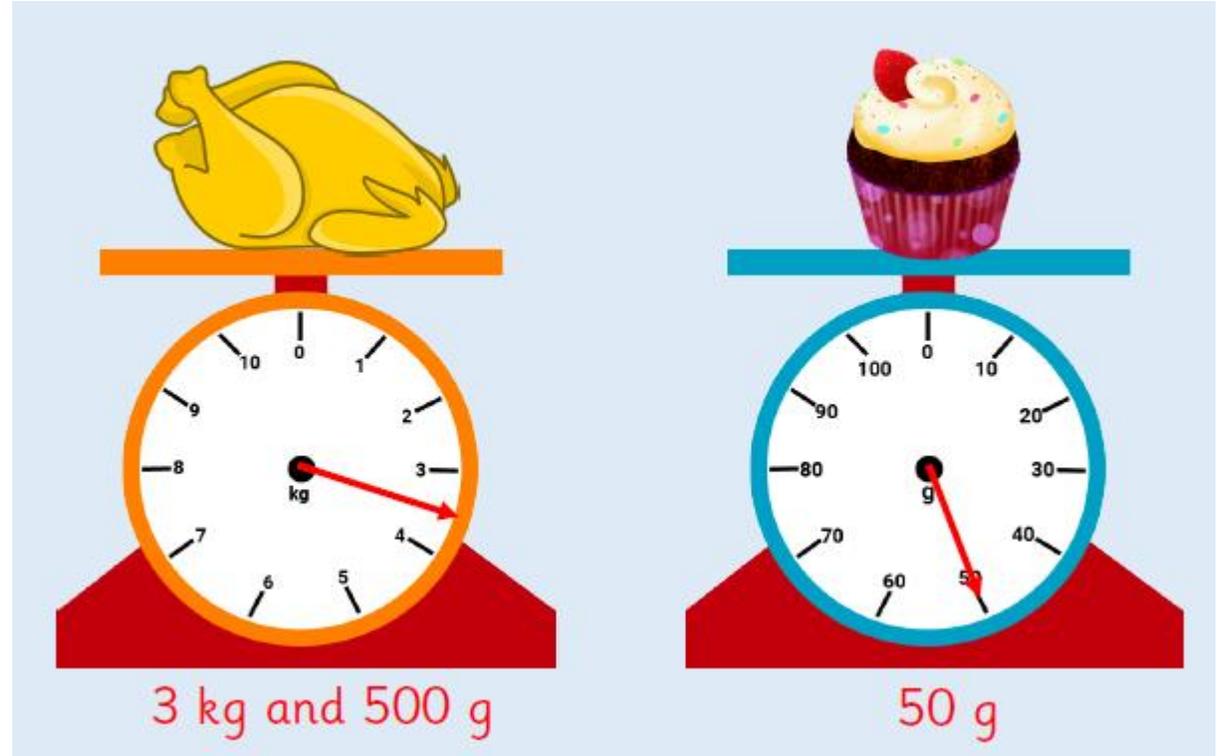
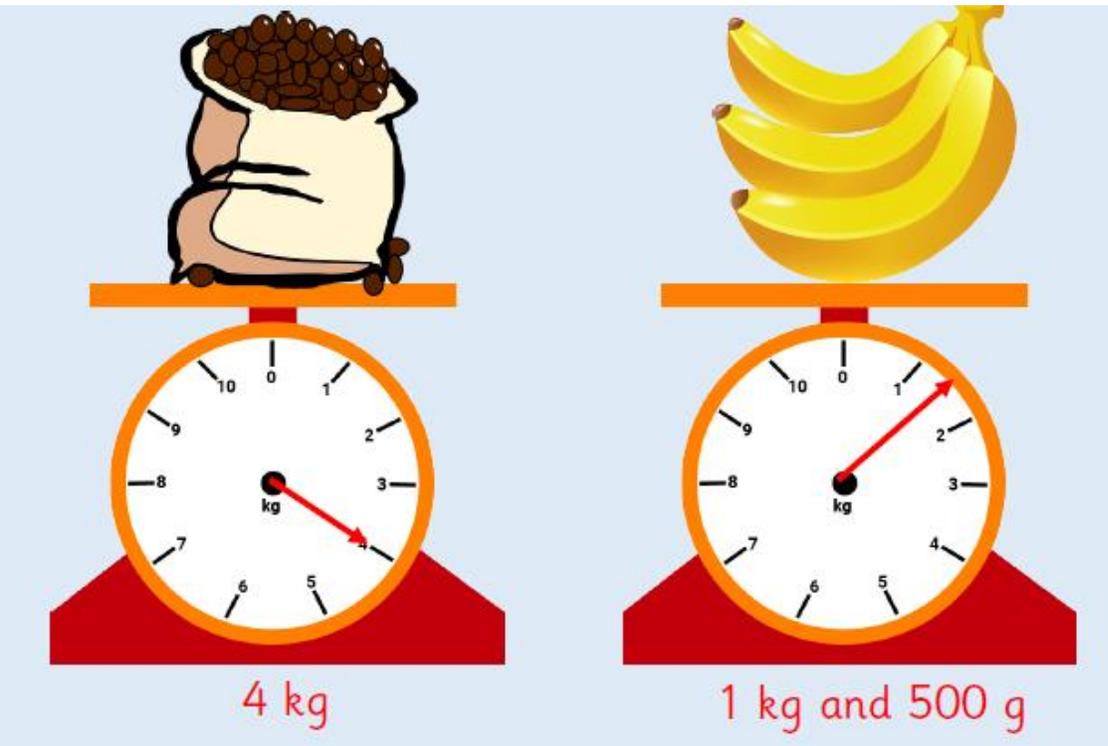
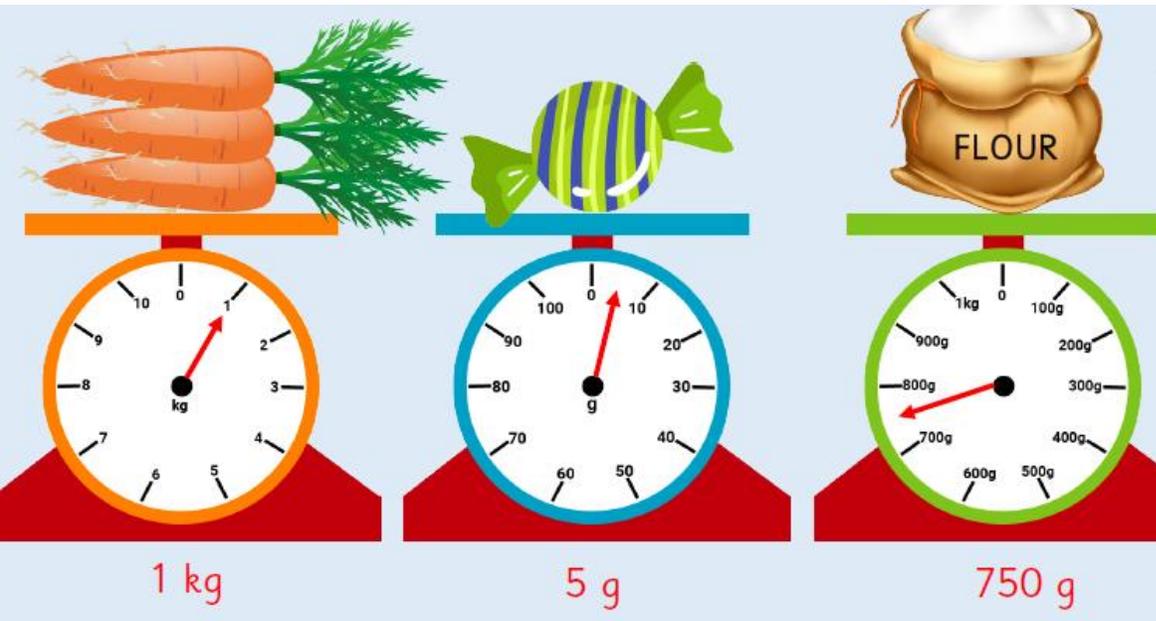


How much does each item weigh?

Remember to find the value of one interval to help you.



# Answers





Who do you agree with?  
Explain why.



Zach

The mangoes weigh 13 kg.



Malachi

We don't know how much the mangoes weigh because the number is hidden.



Esin

The mangoes weigh more than half of 10 kg.

Looking at the scale, we can see that there are numbers missing.

There are two numbers that we can use to help calculate the weight of the mangoes. The number 10 is written on the 10<sup>th</sup> interval. So, each line (interval) is worth 1kg.

Use this information to help you find out who is correct. What is the weight of the mangoes?

Can you calculate the weight of the mangoes?

Zach is wrong – he has counted on 3 from 10 kg when he should have counted back 3 kg.

Malachi is wrong because we can work out the scale by using the 10 kg and counting back. They weigh 7 kg.

Esin is correct because half of 10 is 5 and the arrow is past where 5 kg would be.

The weight of the mangoes is 7 kg.

## Answer



Zach

The mangoes weigh 13 kg.



Malachi

We don't know how much the mangoes weigh because the number is hidden.

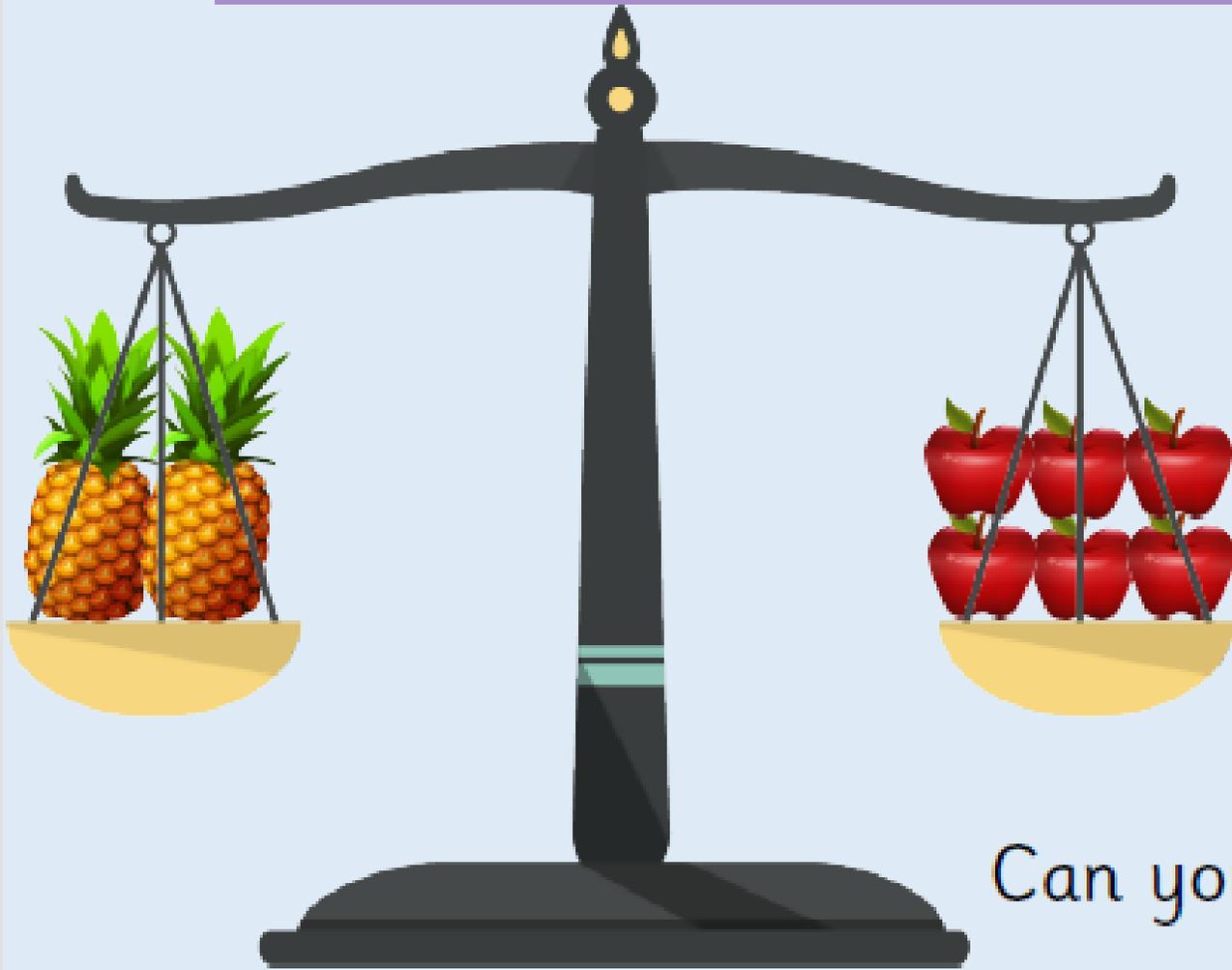


Esin

The mangoes weigh more than half of 10 kg.

Who do you agree with?  
Explain why.

Complete the sentences.



pineapples are equal to  
 apples.

1 pineapple is equal to  
 apples.

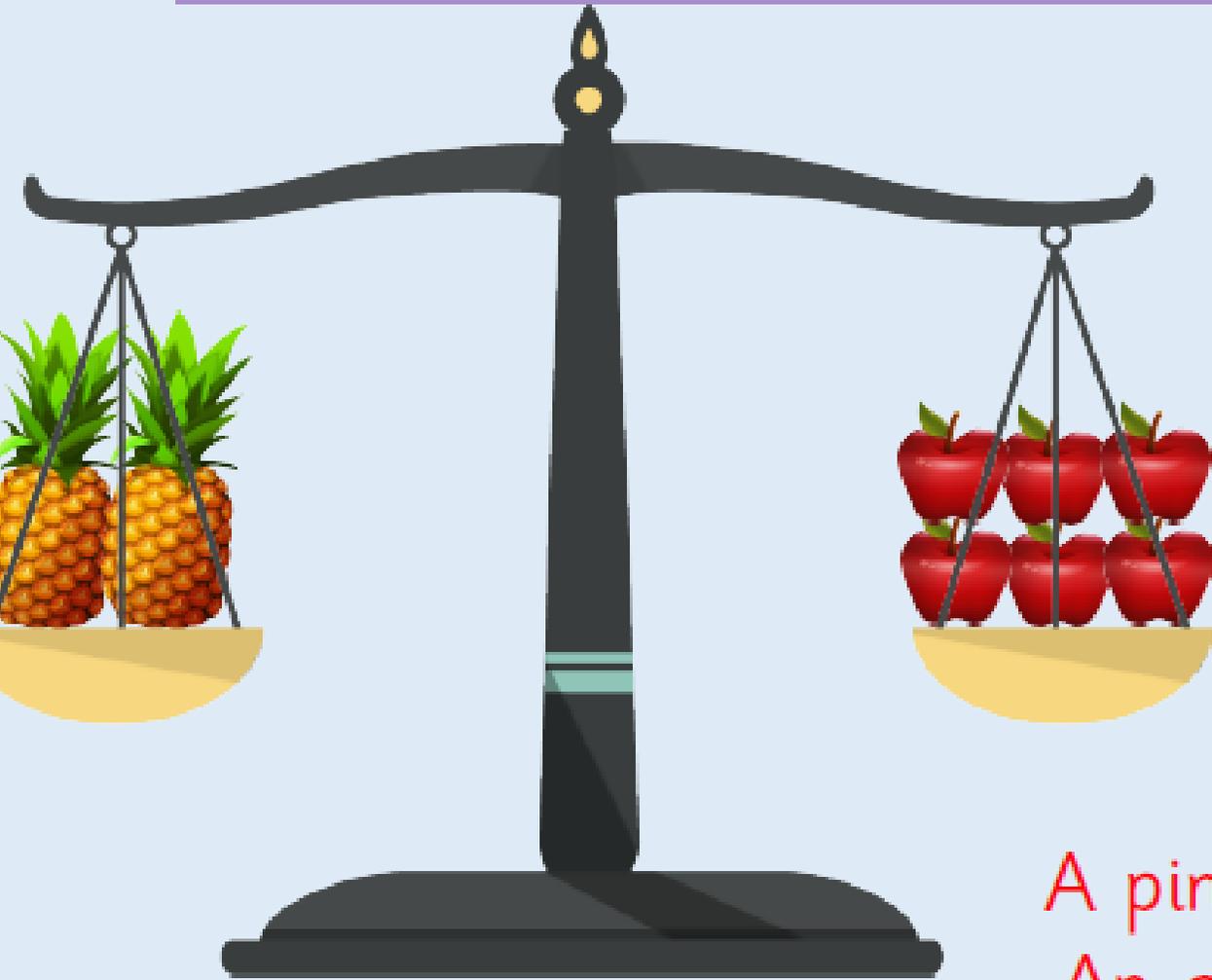
Can you write sentences using 'heavier' or  
'lighter' about the image?



*Which item is heavier or lighter? How do you know?*

# Answer

Complete the sentences.



2

pineapples are equal to

6

apples.

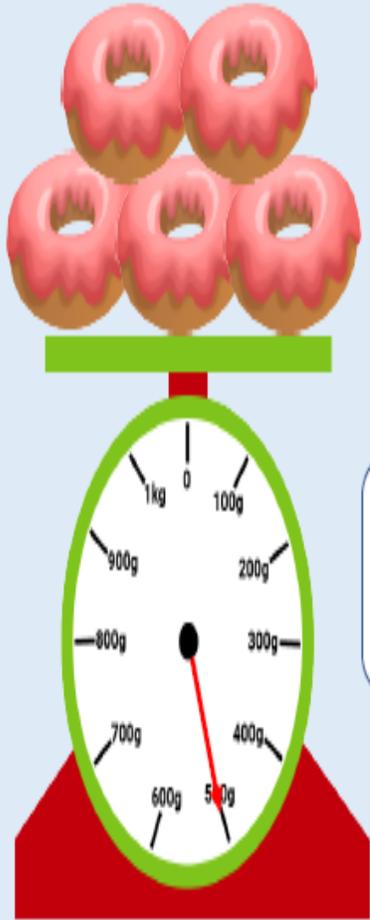
1 pineapple is equal to

3

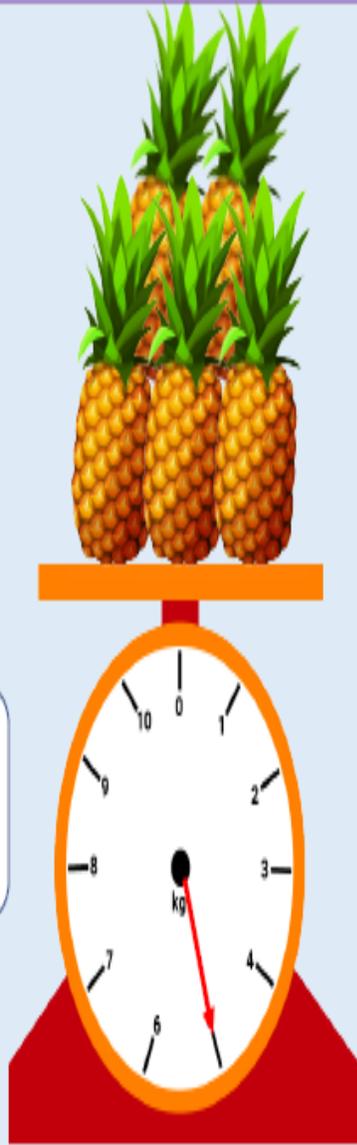
apples.

A pineapple is heavier than an apple.  
An apple is lighter than a pineapple.

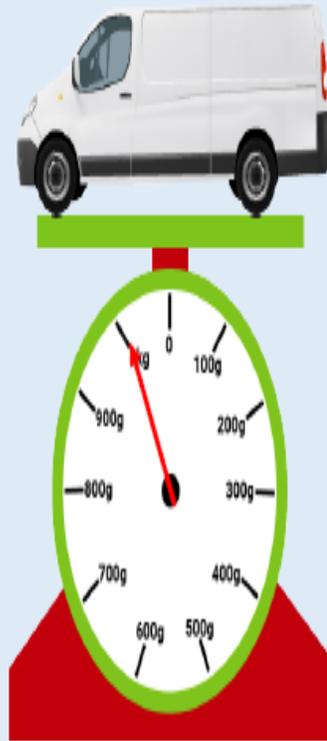
Use  $<$ ,  $>$  or  $=$  to compare the mass of each pair of objects.



500 g  5 kg



Use  $<$ ,  $>$  or  $=$  to compare the mass of each pair of objects.

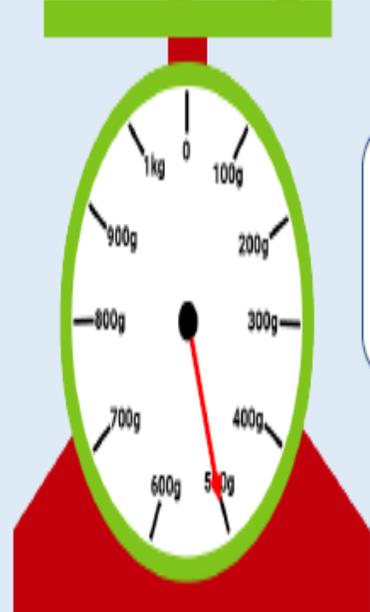


1,000 g  1 kg

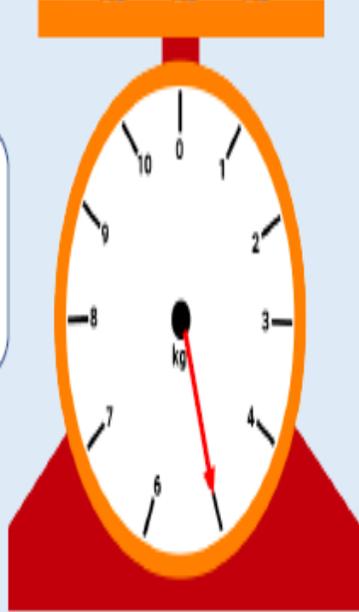


Use  $<$ ,  $>$  or  $=$  to compare the mass of each pair of objects.

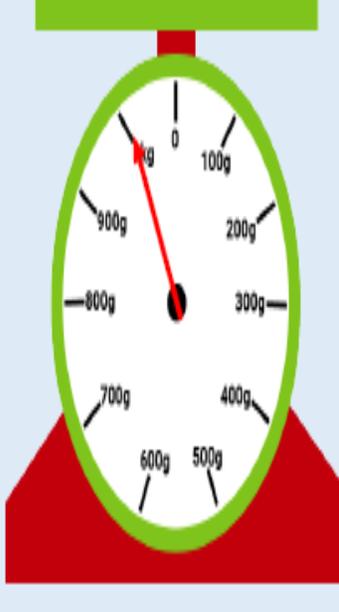
## Answers



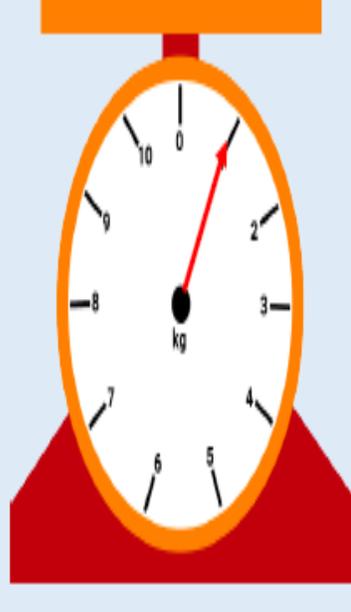
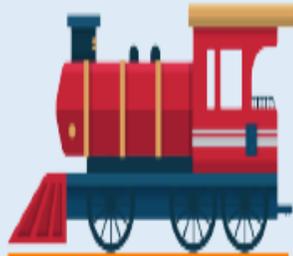
500 g  $<$  5 kg



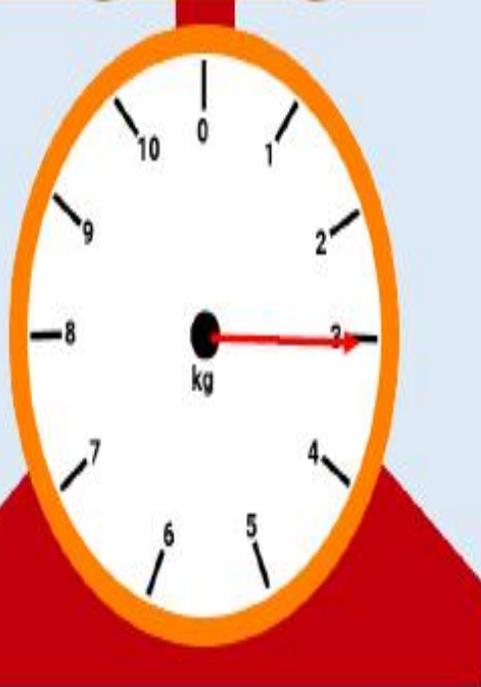
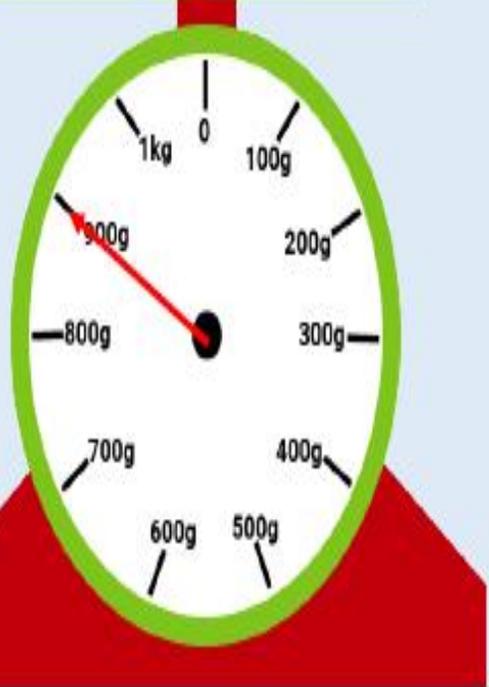
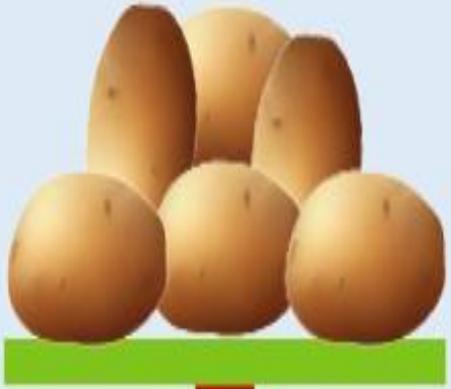
Use  $<$ ,  $>$  or  $=$  to compare the mass of each pair of objects.



1,000 g  $=$  1 kg



Three children are weighing potatoes and flour.



Zach



The potatoes weigh more because the arrow is further than the arrow on the flour scale.

Malachi



The flour weighs less because 3 is less than 900.

Esin



The flour weighs more because 3 kg is more than 900 g.

Who do you agree with?  
Explain your answer.

Zach



The potatoes weigh more because the arrow is further than the arrow on the flour scale.

Malachi



The flour weighs less because 3 is less than 900.

Esin

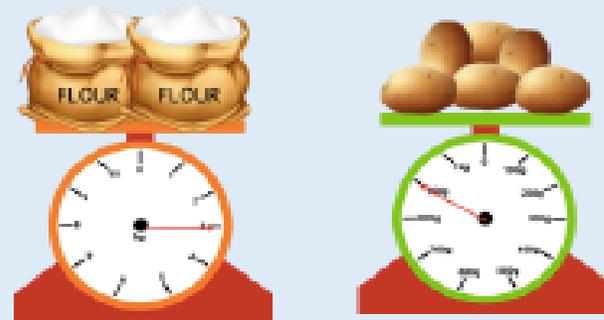


The flour weighs more because 3 kg is more than 900 g.

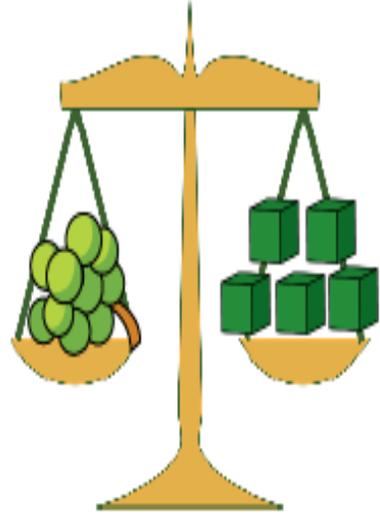
Zach is wrong because the scales show different units of weight.

Malachi is wrong because he hasn't noticed the flour is weighed in kg and the potatoes are weighed in g.

Esin is correct because 3 kg is the same as 3,000 g which is more than 700 g.



Complete the sentences below.



The cupcake weighs \_\_\_\_ cubes.

The grapes weigh \_\_\_\_ cubes.

The cupcake is \_\_\_\_\_ than the grapes. (*heavier/lighter*)

Can you order the objects from heaviest to lightest?



= 3 pencils

Ball



= 8 pencils

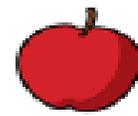
Teddy Bear



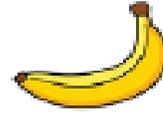
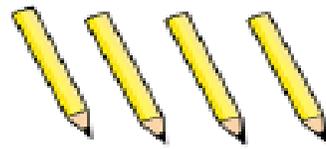
= 4 pencils

Sock

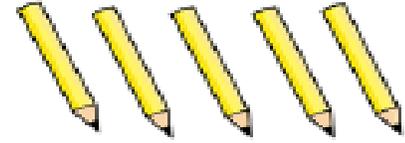
## Challenge 1



=



=



Complete the sentences below:

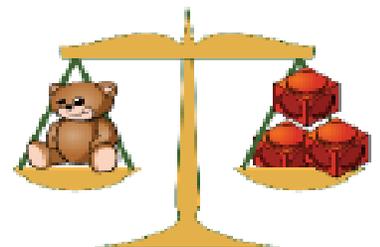
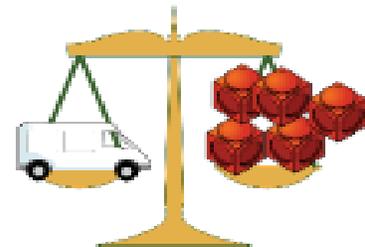
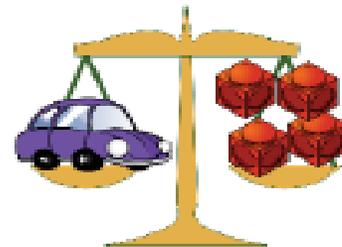
The \_\_\_\_\_ is heavier than the \_\_\_\_\_.

The \_\_\_\_\_ is lighter than the \_\_\_\_\_.

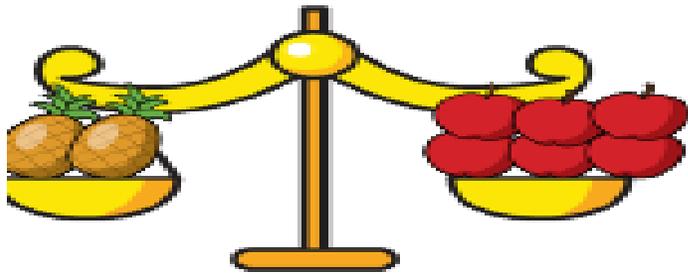
The \_\_\_\_\_ weighs \_\_\_\_ pencils.

Can you match the clue to the images?

- My object weighs more than the car.
- My object is less than 5 cubes.
- My object is not the heaviest or the lightest.



Complete the sentences.

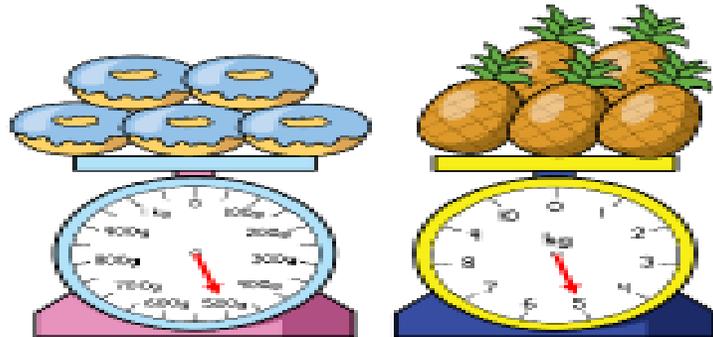


pineapples are equal to  apples.

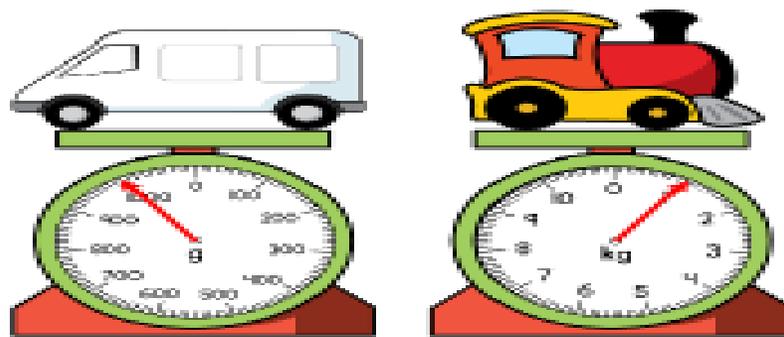
1 pineapple is equal to  apples.

Can you write sentences using 'heavier' or 'lighter' about the image

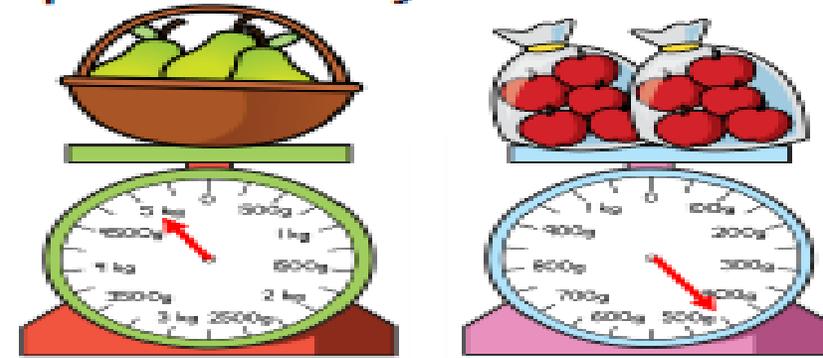
Use  $<$ ,  $>$  or  $=$  to compare the mass of each pair of objects.



500 g  5 kg



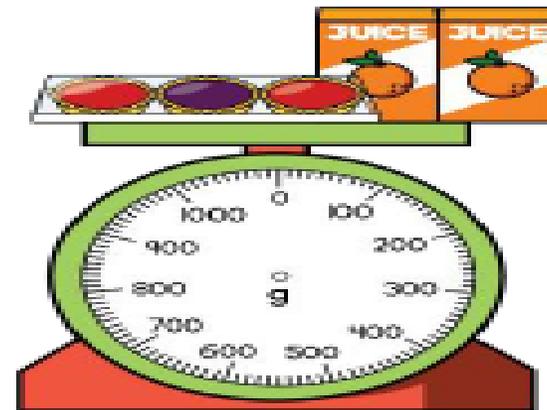
1,000 g  1 kg



A pack of tarts weighs 220 g.

Two cartons of orange juice weigh 140 g.

What is the weight of the items?

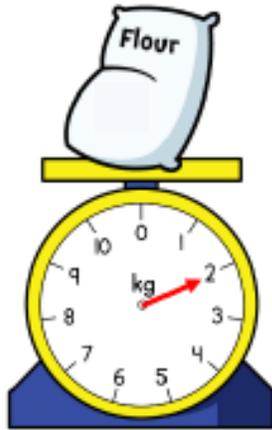
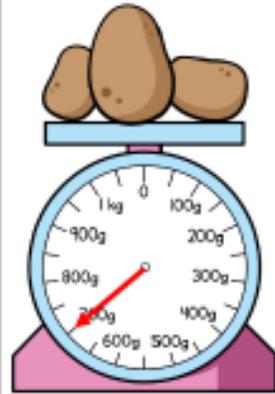


Challenge 2

# Challenge 3



A pack of carrots weighs 420 g.  
Two packs of tomatoes weigh 120 g each.  
What is the total weight?



Three children are weighing potatoes and flour.



Whitney

The potatoes weigh more because the arrow is further than the arrow on the flour scale.

The flour weighs less because 2 is less than 700



Amir



Alex

The flour weighs more because 2 kg is more than 700 g.

Who do you agree with?  
Explain your answer.

Here are three masses.

20 kg and 600 g

20 kg

18 kg and 500 g

Match each mass to the correct child.

Dora



My mass weighs more than  $\frac{1}{2}$  of 40 kg.

My mass is more than Eva's mass.

Mo



Eva



My mass weighs more than 18 kg but less than 20 kg.

# Answers

- Challenge 1
- The cupcake weighs 2 cubes.
- The grapes weigh 5 cubes.
- The cupcake is lighter than the grapes.
- Heaviest to lightest = Teddy bear, sock, ball.
- The banana is heavier than the apple.
- The apple is lighter than the banana.
- The Banana weighs 5 pencils / The apple weighs 4 pencils.
- My object weighs more than the car = Van
- My object is less than 5 cubes. teddy bear
- My object is not the heaviest or the lightest = Car

## Challenge 2

2 pineapples are equal to 6 apples.

1 pineapple is equal to 3 apples.

$500\text{g} < 5\text{kg}$

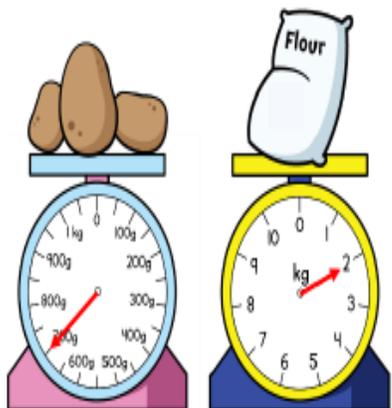
$100\text{g} = 1\text{kg}$

$5\text{kg} > 450\text{g}$

The total weight is 500g

# Answers Challenge 3

Total weight is  
660g



Three children  
are weighing  
potatoes and  
flour.

 Whitney: The potatoes weigh more because the arrow is further than the arrow on the flour scale.

 Amir: The flour weighs less because 2 is less than 700.

 Alex: The flour weighs more because 2 kg is more than 700 g.

Who do you agree with?  
Explain your answer.

Whitney is wrong because the scales are different.  
Mo is wrong because he hasn't noticed the flour is weighed in kg and the potatoes are weighed in g.  
Alex is correct because 2 kg is the same as 2,000 g which is more than 700 g.

Here are three masses.

20 kg and 600 g

20 kg

18 kg and 500 g

Match each mass to the correct child.

 Dora: My mass weighs more than  $\frac{1}{2}$  of 40 kg.

 Mo: My mass is more than Eva's mass.

 Eva: My mass weighs more than 18 kg but less than 20 kg.

Eva: 18 kg and 500 g

Mo: 20 kg

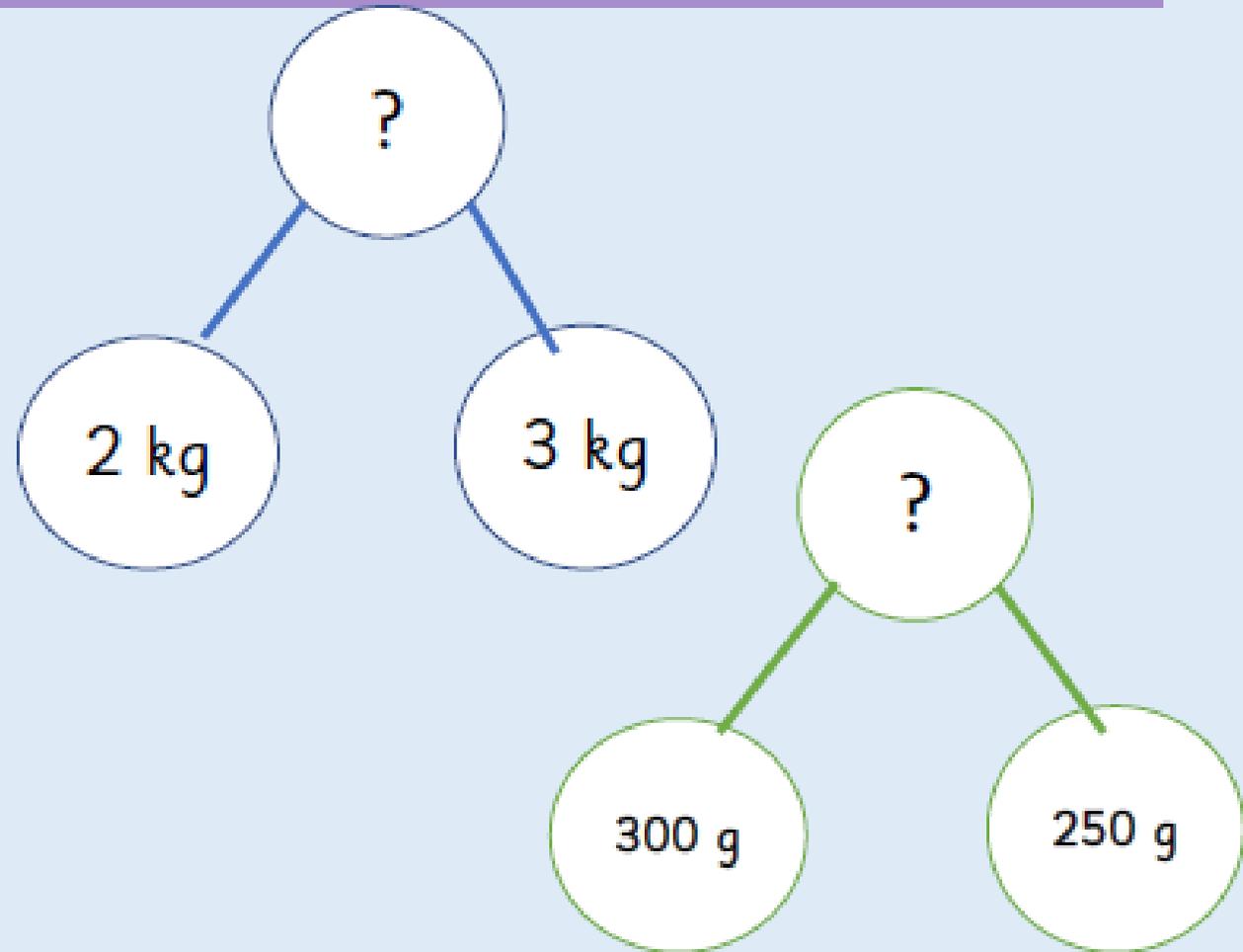
Dora: 20 kg and 600 g

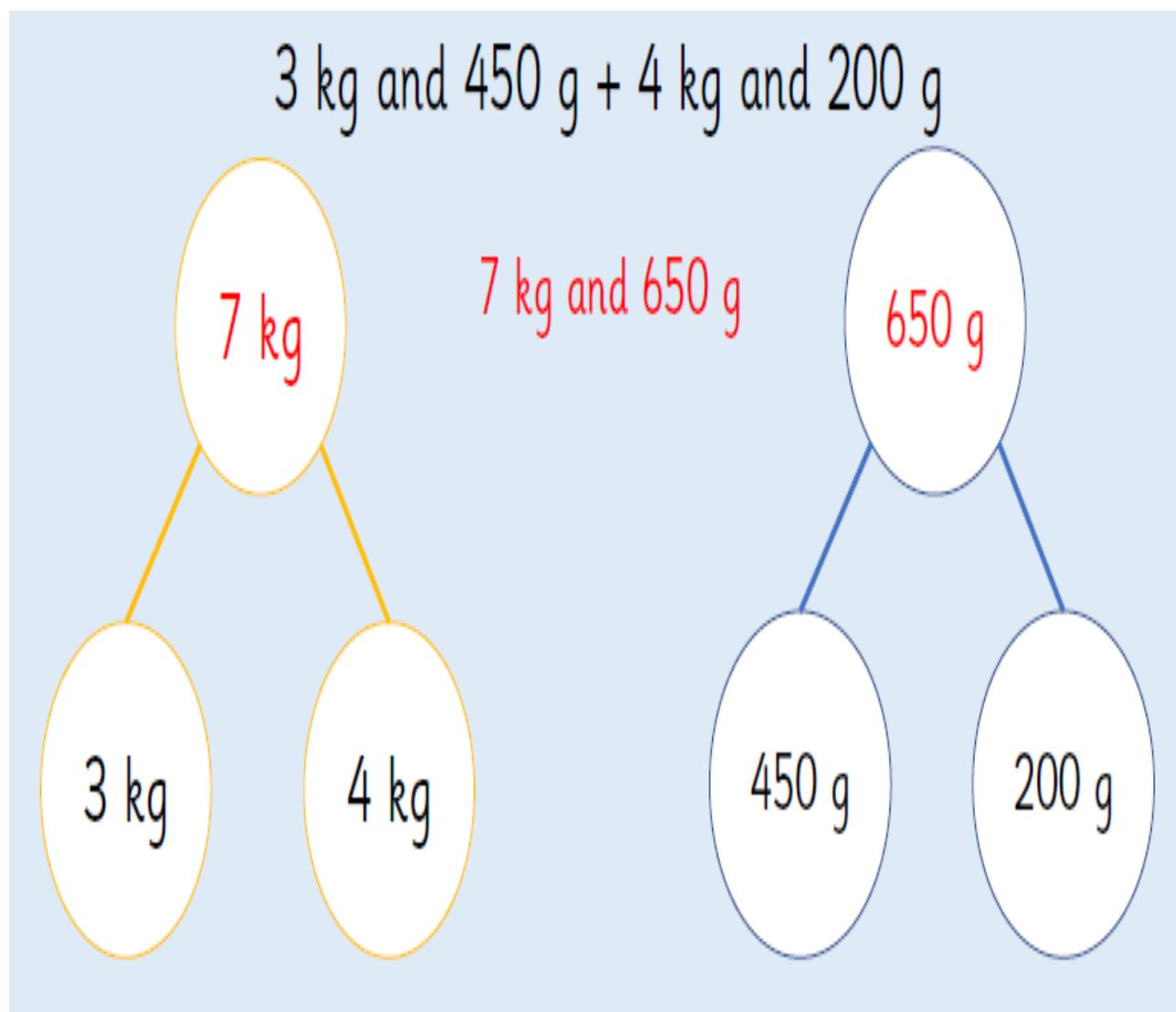
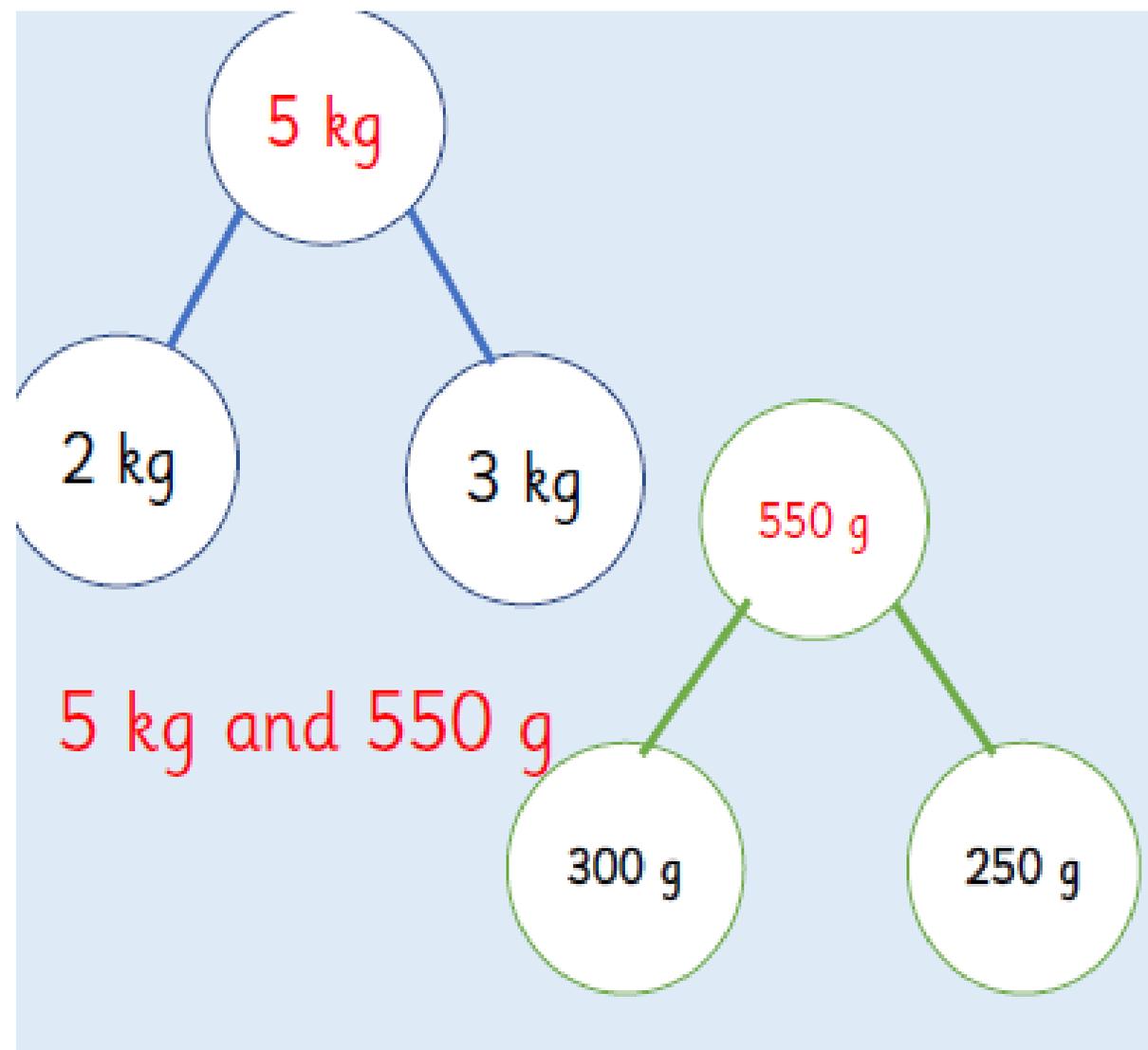
05/05/2020: L.O: To add and subtract mass.

Malachi uses a part-whole model to add 2 kg and 300 g to 3 kg and 250 g. He partitions each mass into kilograms and grams and calculates them separately.

Use Malachi's method to calculate:

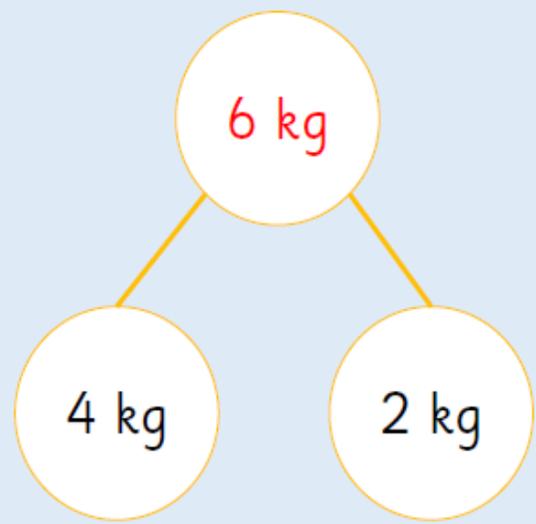
- 3 kg and 450 g + 4 kg and 200 g
- 4 kg and 105 g + 2 kg and 300 g
- 4 kg and 400 g - 2 kg and 100 g
- 8 kg and 600 g - 1 kg and 550 g



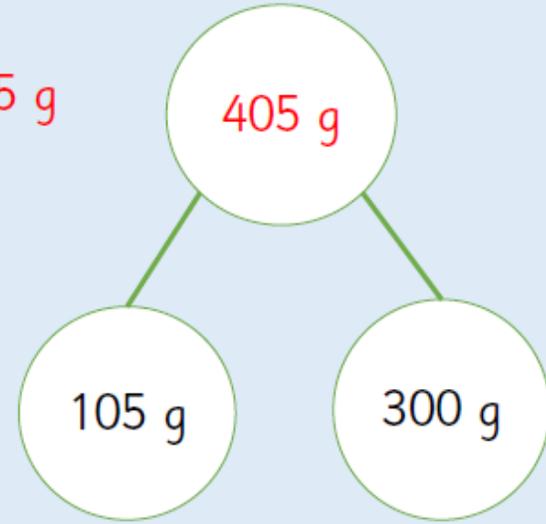


How many grams in 1kg?

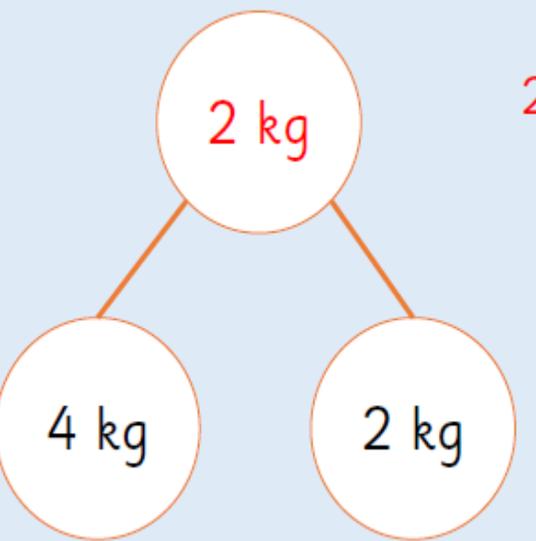
4 kg and 105 g + 2 kg and 300 g



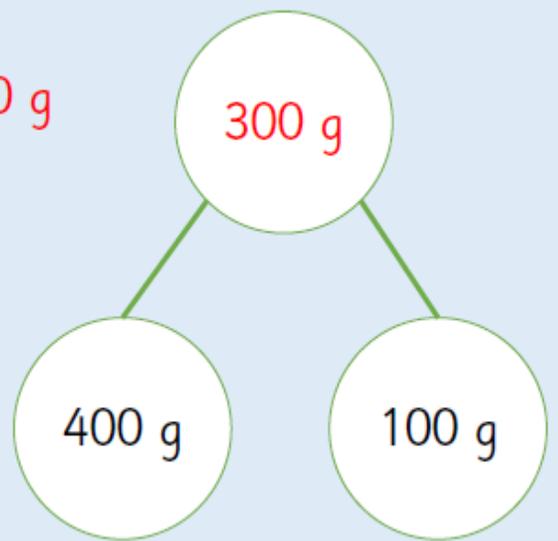
6 kg and 405 g



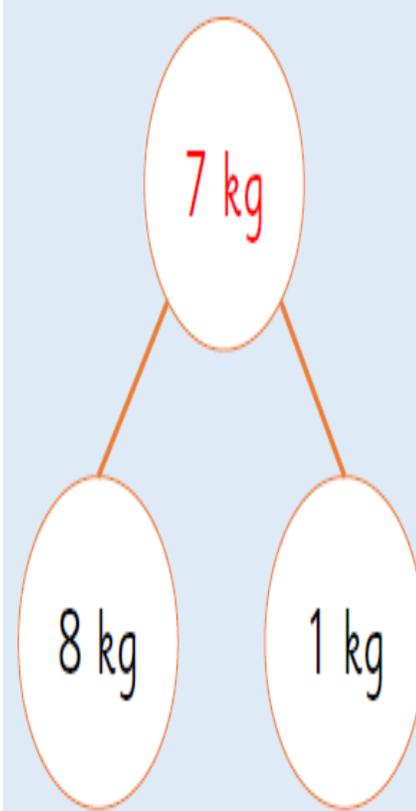
4 kg and 400 g - 2 kg and 100 g



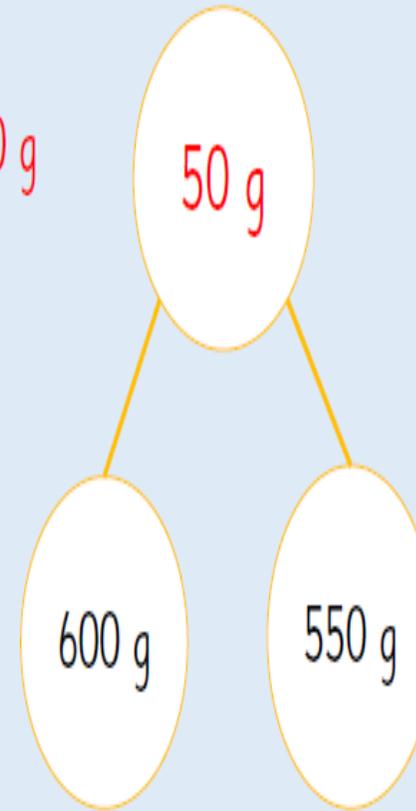
2 kg and 300 g



8 kg and 600 g - 1 kg and 550 g



7 kg and 50 g



The jar of cookies has a mass of 800 g.  
The empty jar has a mass of 350 g.  
How much do the cookies weigh?



$$800 \text{ g} - 350 \text{ g} = 450 \text{ g}$$

The cookies weigh 450 g.

Can you draw a part  
whole model to  
show this?

The jar of sweets has a mass of 600 g. The empty jar has a mass of 225 g. How much do the cookies weigh?



The jar of sweets has a mass of 600 g. The empty jar has a mass of 225 g. How much do the cookies weigh?

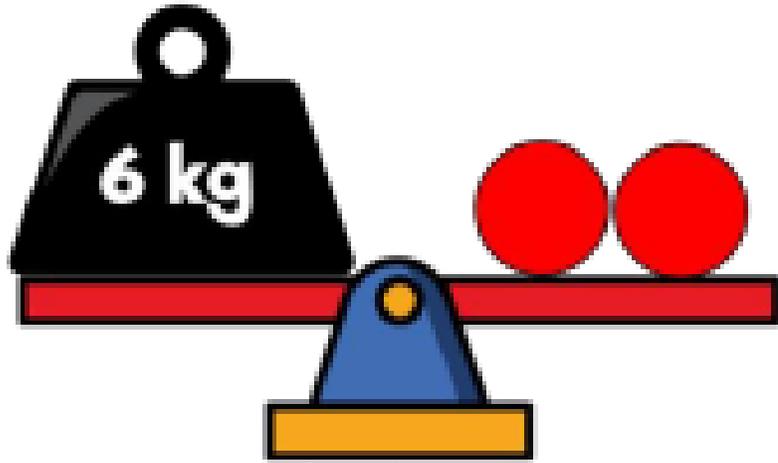
$$600 \text{ g} - 225 \text{ g} = 375 \text{ g}$$

The sweets weigh 375 g.

- Can you draw a part whole model to show this?

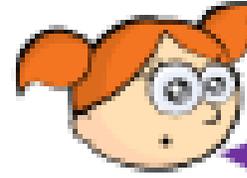


# Challenge 1



How much does each circle weight?  
Write your number sentence.

Tommy's car weighs 1kg.



Alex

My car weighs 1 kg more than Mo's.



Mo

My car weighs 200 g less than Tommy's.

How much does Mo's car weigh?  
How much does Alex's car weigh?

Amir uses a part-whole model to add 2 kg and 300 g to 3 kg and 250 g. He partitions each mass into kilograms and grams and calculates them separately.

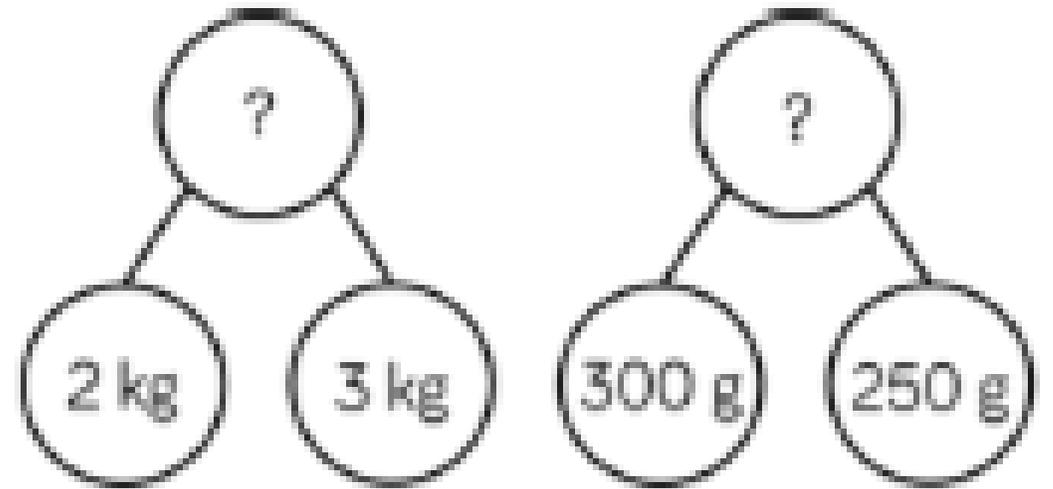
Use Amir's method to calculate:

3 kg and 450 g + 4 kg and 200 g

4 kg and 105 g + 2 kg and 300 g

4 kg and 400 g - 2 kg and 100 g

8 kg and 600 g - 1 kg and 550 g



Challenge 2



The jar of cookies has a mass of 800 g.

The empty jar has a mass of 350 g.

How much do the cookies weigh?

Tia buys two pears and four peaches.



One pear weighs 70 g.

Four peaches weigh the same as two pears.



How much does one peach weigh?

$$7 \text{ kg} - \quad = 5 \frac{1}{2} \text{ kg}$$

$$3 \text{ kg and } 200 \text{ g} + \quad = 4 \frac{1}{2} \text{ kg}$$

$$4 \text{ kg} + \quad - 1 \frac{1}{2} \text{ kg} = 5 \text{ kg}$$

The square parcel weighs 4 kg. Can you work out what the rectangular green and rectangular brown parcels weigh?

7 kg and 300 g

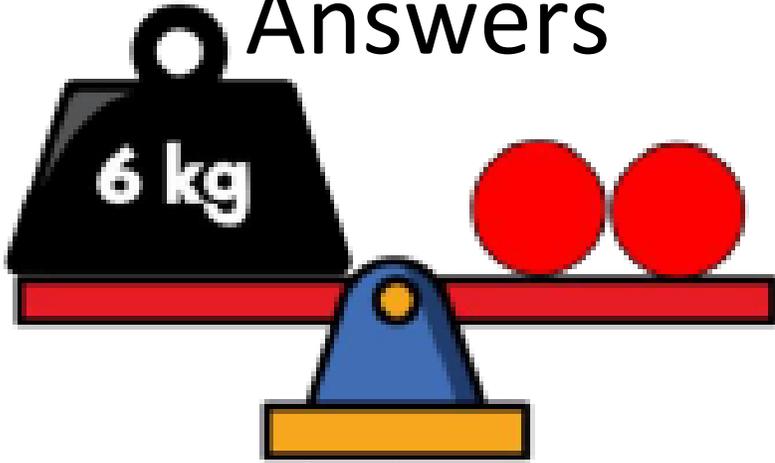
9 kg and 500 g

How much would the rectangular green and brown parcels weigh altogether?

## Challenge 3

# Challenge 1

## Answers



How much does each circle weight?

Each circle weighs 3kg.

$$3\text{kg} + 3\text{kg} = 6\text{kg}$$

Tommy's car weighs 1kg.



Alex

My car weighs 1 kg more than Mo's.



Mo

My car weighs 200 g less than Tommy's.

How much does Mo's car weigh?

800g

How much does Alex's car weigh?

1kg and 800g

# Challenge 2 answers

- 7kg and 650g
  - 6kg and 405g
  - 2kg and 300g
  - 7kg and 50g
- 
- The cookies weigh 450g

# Answers Challenge 3



One pear weighs 70 g.

Four peaches weigh the same as two pears.



Each peach weighs 35 g.

$$7 \text{ kg} - 1 \frac{1}{2} \text{ kg} = 5 \frac{1}{2} \text{ kg}$$

$$3 \text{ kg and } 200 \text{ g} + 1 \text{ kg and } 300 \text{ g} = 4 \frac{1}{2} \text{ kg}$$

$$4 \text{ kg} + 2 \frac{1}{2} \text{ kg} - 1 \frac{1}{2} \text{ kg} = 5 \text{ kg}$$

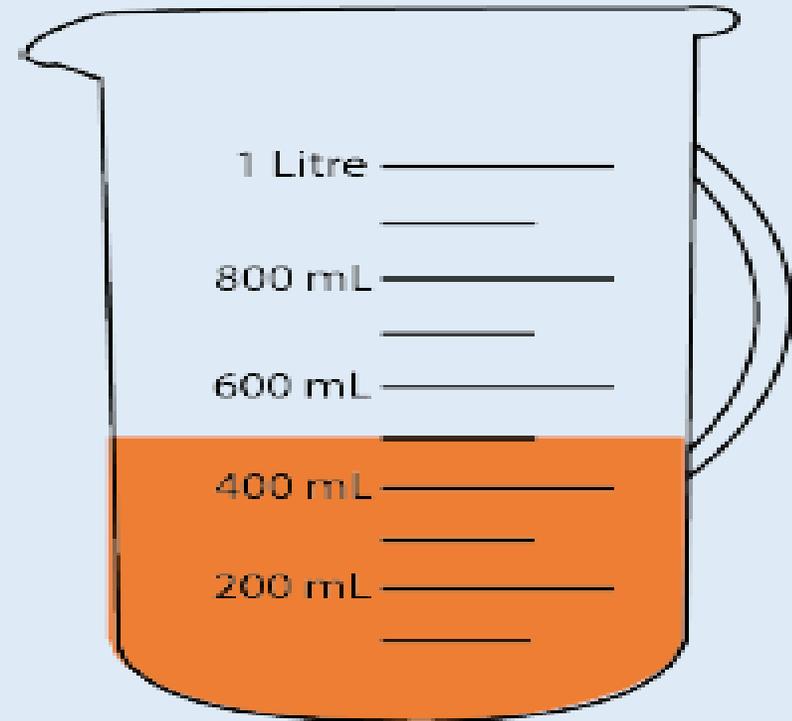
Rectangular green parcel:  
5 kg and 500 g

Rectangular brown parcel:  
1 kg and 800 g

Square parcel:  
4 kg

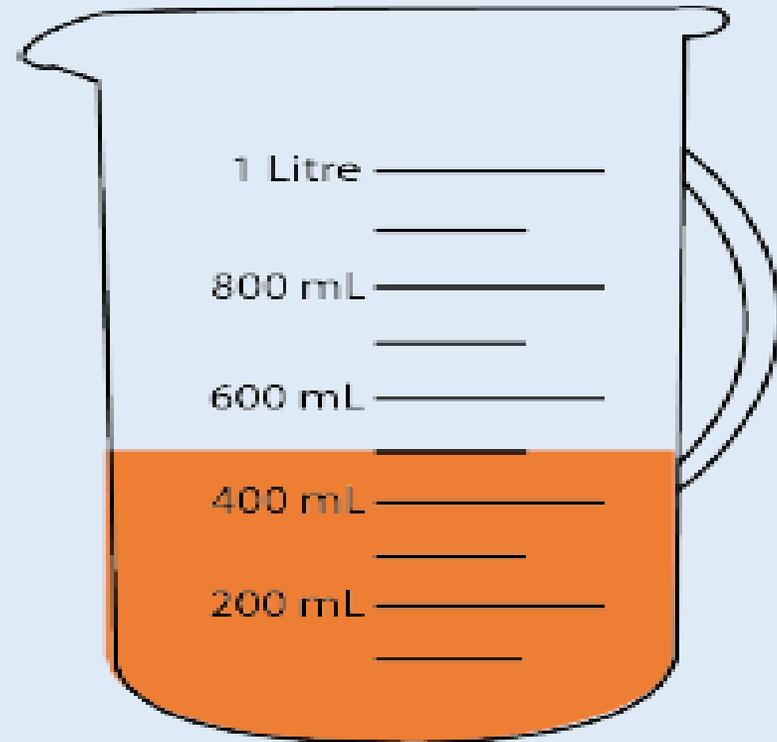
06/05/2020: L.O: To compare capacity.

Complete the sentences.



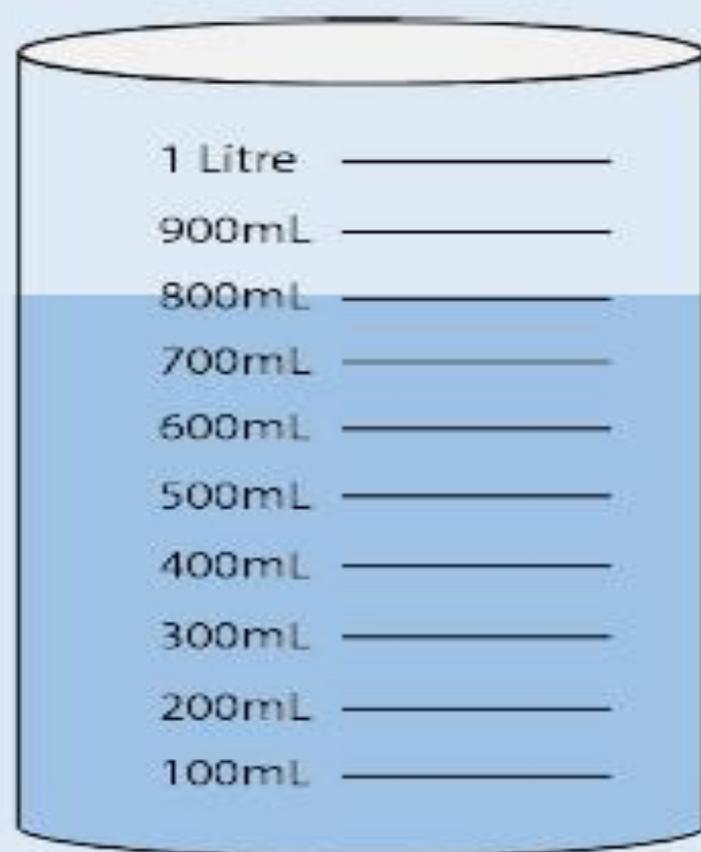
\_\_\_\_\_ cans are equal to \_\_\_\_\_ of orange juice.  
1 can is equal to \_\_\_\_\_ of orange juice.

Complete the sentences.



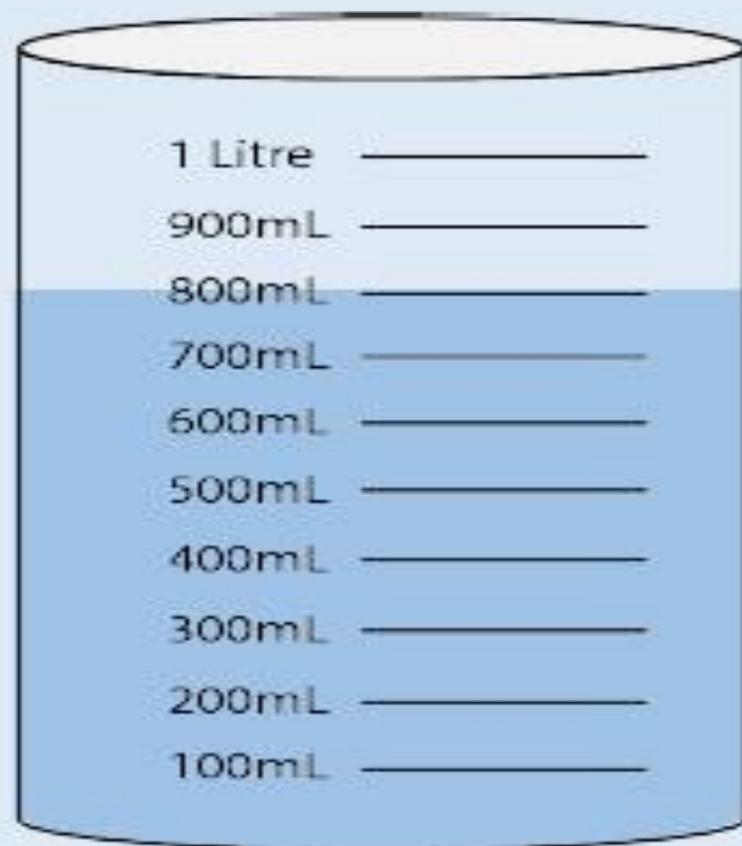
2 cans are equal to 450 ml of orange juice.  
1 can is equal to 225 ml of orange juice.

Complete the sentences.

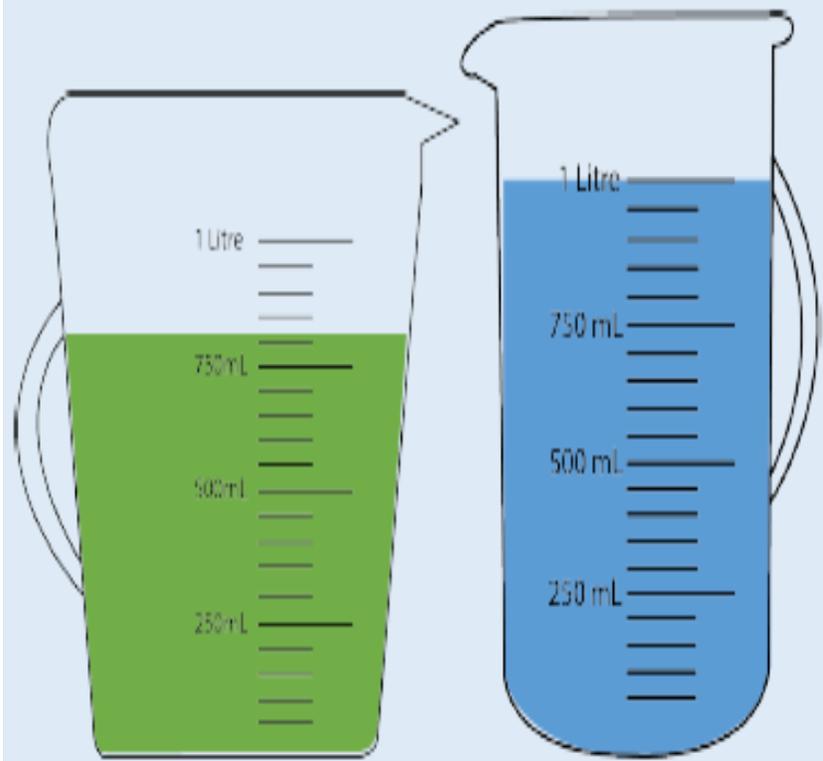


\_\_\_\_ cans are equal to \_\_\_\_\_ of water.  
1 can is equal to \_\_\_\_\_ of water.

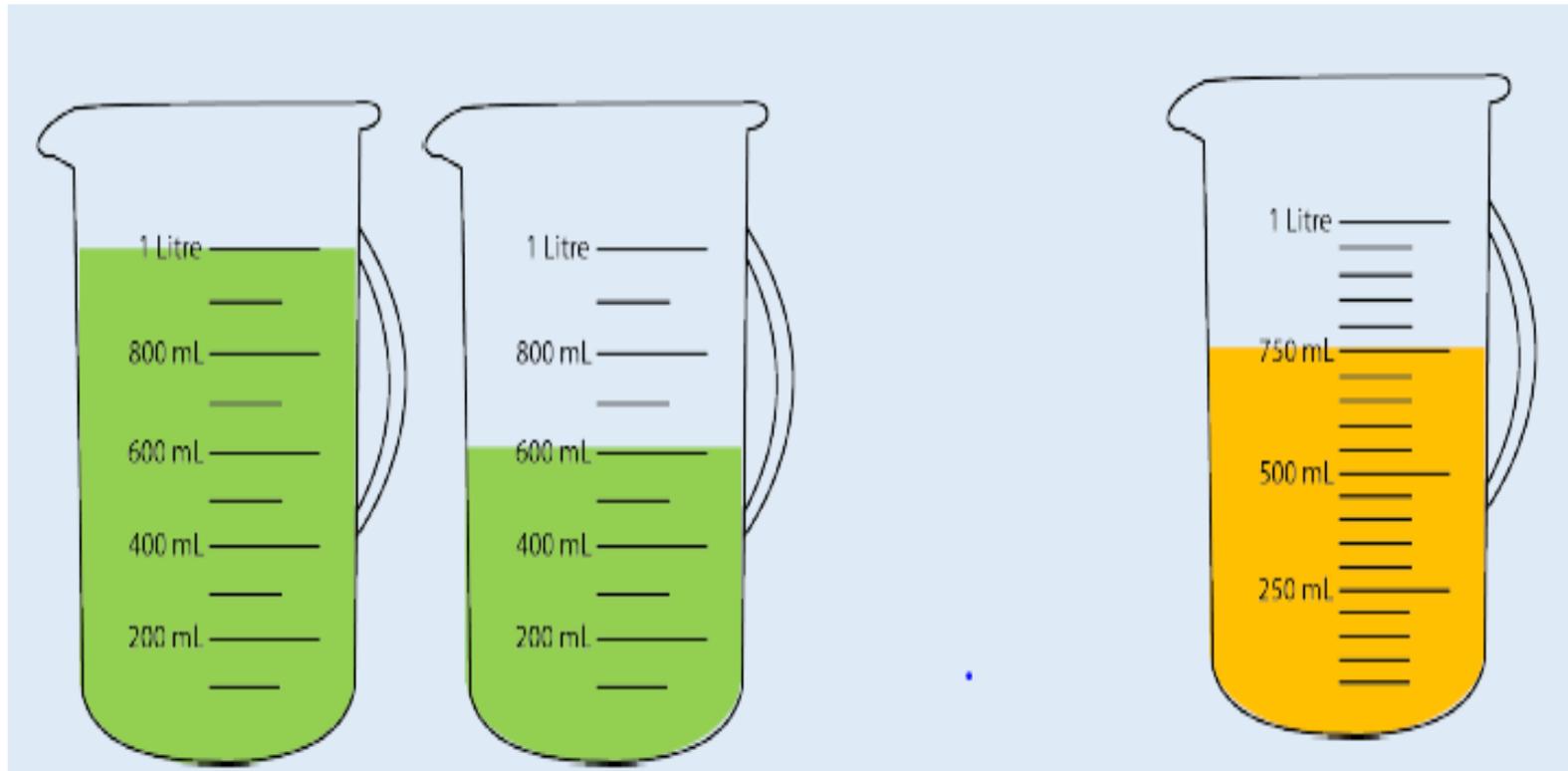
Complete the sentences.



2 cans are equal to 800 ml of water.  
1 can is equal to 400 ml of water.

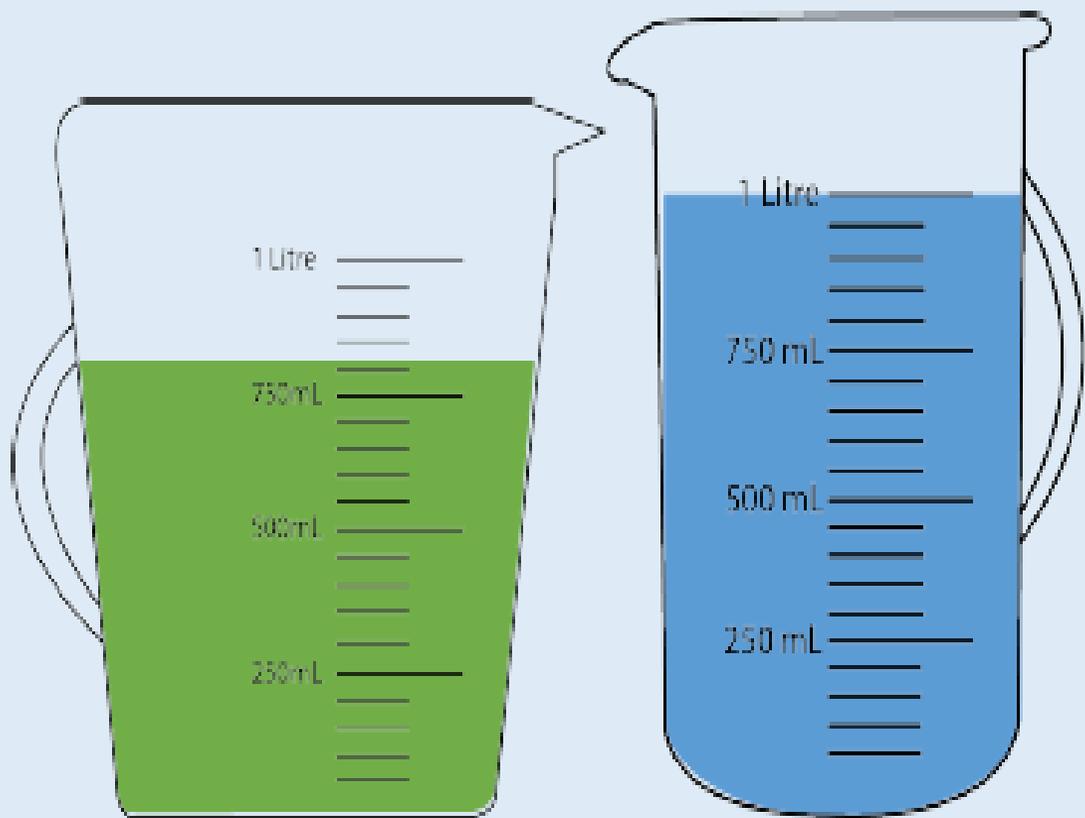


800 ml  1 L



L and  ml  750 ml

Use  $<$ ,  $>$  or  $=$  to compare the volume of liquid in each pair of containers.



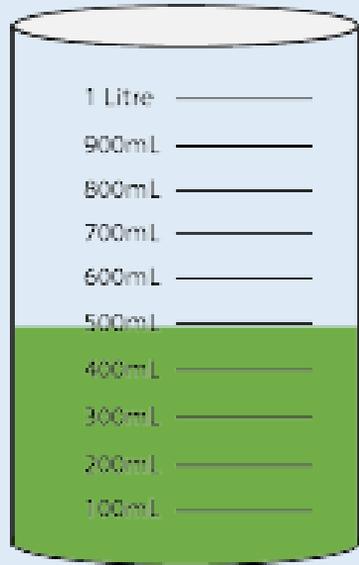
800 ml < 1 L



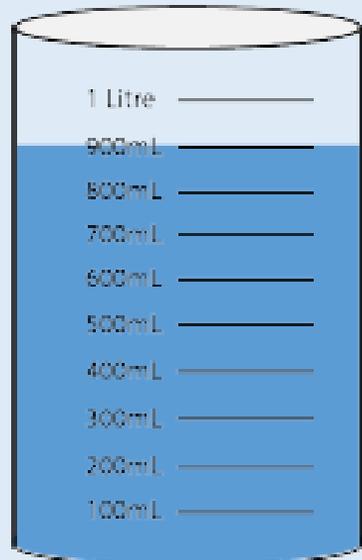
1 L and 600 ml > 750 ml

# Challenge 1

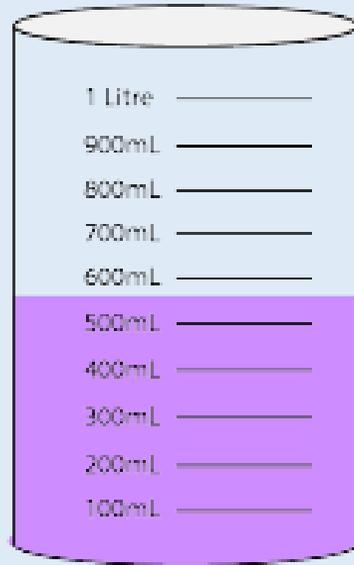
Use the clues to work out who has which container.



A



B



C

I have half a litre.



Zach

I have 900 ml.



Rosie

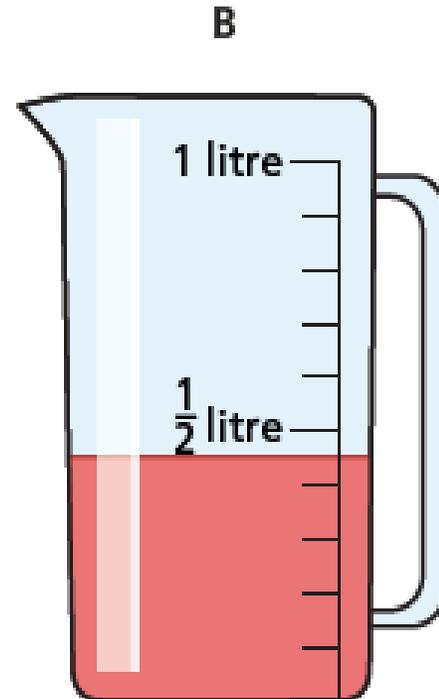
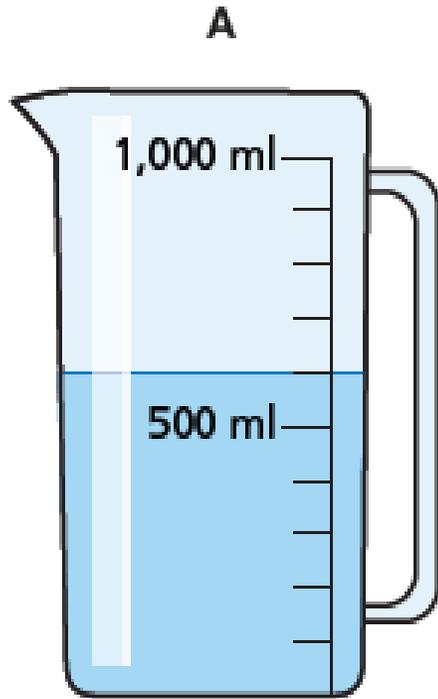
I have more than 500 ml but less than 600 ml.



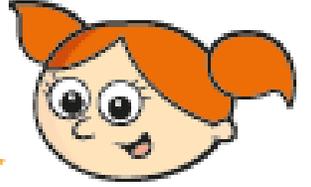
Tia

# Challenge 2

Here are two jugs.



300 ml is greater than 1 litre because 300 is greater than 1



Do you agree with Alex? \_\_\_\_\_

Explain your answer.

Here is the capacity of four different containers.



a) What is the volume of liquid in jug A?

 ml

b) What is the volume of liquid in jug B?

 ml

c) How do you know that the capacity of each jug is the same?

Put the containers in order of capacity.

Start with the smallest capacity.

Rosie has a litre bottle of water.



She pours a drink for herself and two friends. Their glasses can hold up to 250 ml.

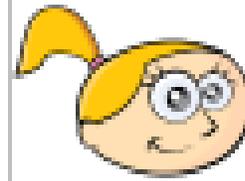


Teddy has more than Amir.  
Rosie has the most.

How much could each child have in their glass?

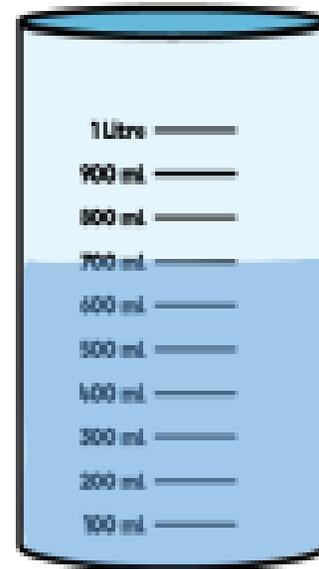
How much would be left in the bottle?

## Challenge 3

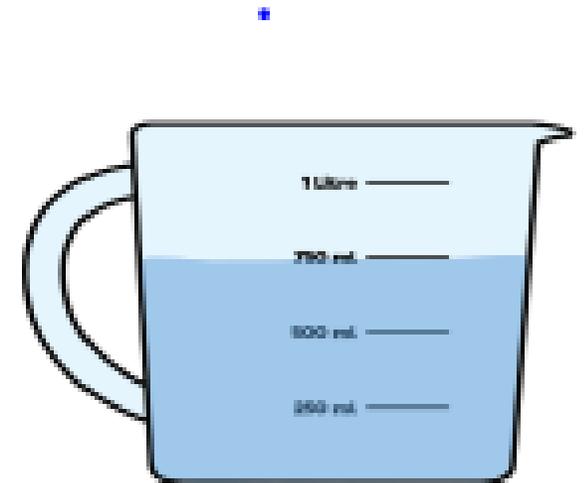


Eva

I know container 1 has more than container 2 in it because the water goes further up the side.



Container 1



Container 2

Is Eva correct? Explain your answer.

# Answers

## Challenge 1

Zach = Container A

Rosie = Container B

Tia = Container C

## Challenge 2

Jug A = 600ml

Jug B = 450ml

No, I don't agree with Alex because i know that 1L = 1000ml. 1000 is greater than 300.

99ml

400ml

2L

3L 400ml

# Answers Challenge 3

Rosie has a litre bottle of water.



She pours a drink for herself and two friends. Their glasses can hold up to 250 ml.



Teddy has more than Amir.  
Rosie has the most.

How much could each child have in their glass?

How much would be left in the bottle?

There are a range of possible answers the children could find. Rosie should have the most and Amir should have the least. The total should not exceed 750 ml

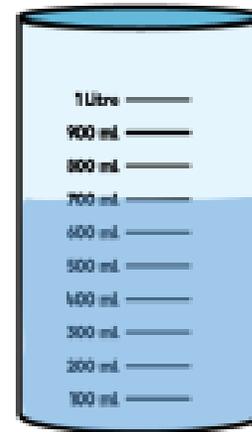
Possible answer:

Rosie: 250 ml  
Teddy: 200 ml  
Amir: 150 ml  
There is 400 ml left in the bottle.

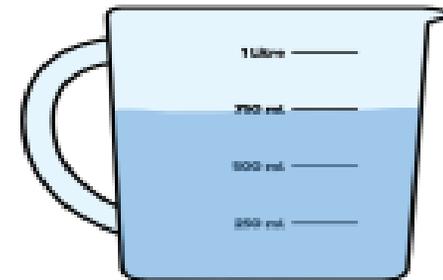


Eva

I know container 1 has more than container 2 in it because the water goes further up the side.



Container 1



Container 2

Is Eva correct? Explain your answer.

Eva is not correct. The measurements show that container 1 has 700 ml in it whereas container 2 has 750 ml in. Container 2 is wider than container 1 which is why it looks like it has less in it.

07/05/2020: L.O: To add and subtract capacity.



To make Summer Punch for two people:  
300 ml of pineapple juice, 250 ml of orange juice,  
500 ml of lemonade.

- How much liquid is used in total to make Summer Punch for two people?
- How much orange juice would be needed to make enough for four people?
- Would 2 x 500 ml bottles of lemonade be enough to make drinks for four people?

- Remember
- 1L = 1000ml

07/05/2020: L.O: To add and subtract capacity.



To make Summer Punch for two people:  
300 ml of pineapple juice, 250 ml of orange juice,  
500 ml of lemonade.

- How much liquid is used in total to make Summer Punch for two people?

$$300\text{ml} + 250\text{ml} + 500\text{ ml} = 1050\text{ml}$$

$$1050\text{ml} + 1050\text{ml} = 2100\text{ml}$$

- Remember
- $1\text{L} = 1000\text{ml}$
- You can use column method to solve this.
- You can also use part-whole model to solve these questions.



To make Summer Punch for two people:  
300 ml of pineapple juice, 250 ml of orange juice,  
500 ml of lemonade.

- How much liquid is used in total to make Summer Punch for two people?
- How much orange juice would be needed to make enough for four people?

- $250\text{ml} + 250\text{ml} = 500\text{ml}$



To make Summer Punch for two people:  
300 ml of pineapple juice, 250 ml of orange juice,  
500 ml of lemonade.

- How much liquid is used in total to make Summer Punch for two people?
- How much orange juice would be needed to make enough for four people?
- Would 2 x 500 ml bottles of lemonade be enough to make drinks for four people?

- $2 \times 500 \text{ ml} = 1000 \text{ ml}$

500ml is needed for 2 people so 1000ml is enough for 4 people.

Tia has a record of how much milk she has in her café.  
Work out how much milk is used for each order.

| Amount of milk to start | Amount of milk used | Amount of milk left |
|-------------------------|---------------------|---------------------|
| 1 L and 430 ml          |                     | 1 L and 100 ml      |
| 1 L and 100 ml          |                     | 890 ml              |
| 890 ml                  |                     | 545 ml              |

Tia has a record of how much milk she has in her café.  
Work out how much milk is used for each order.

| Amount of milk to start | Amount of milk used | Amount of milk left |
|-------------------------|---------------------|---------------------|
| 1 L and 430 ml          | 330 ml              | 1 L and 100 ml      |
| 1 L and 100 ml          | 210 ml              | 890 ml              |
| 890 ml                  | 345 ml              | 545 ml              |

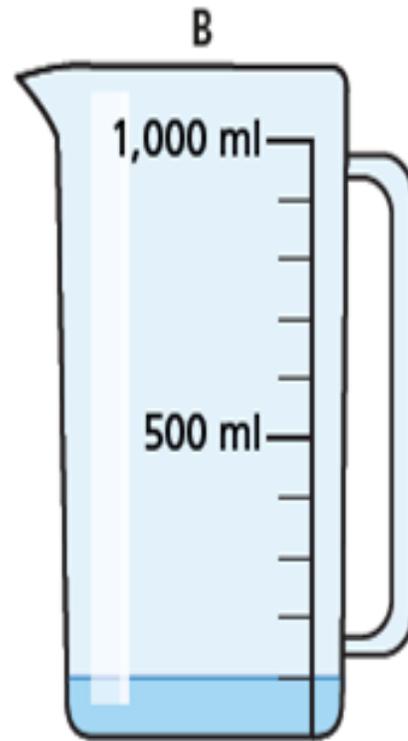
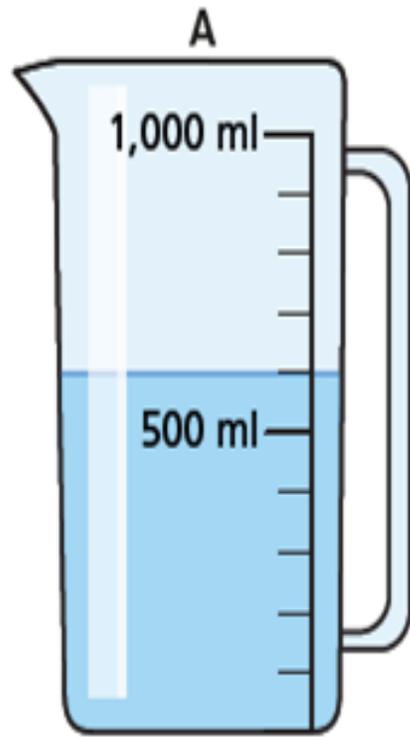
$$1\text{L} = 1000\text{ml}$$

$$1430\text{ ml} - 1100\text{ml} = 330\text{ml}$$

$$1100\text{ml} - 890\text{ml} = 210\text{ ml}$$

$$890\text{ml} - 545\text{ml} = 345\text{ml}$$

Ron has some jugs of water.



a) How much water is in jug A?

 ml

b) How much water is in jug B?

 ml

c) Brett pours the water from jugs A and B into jug C.

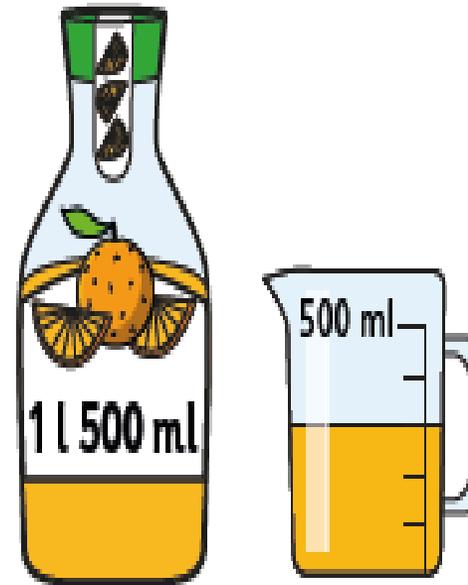
What is the total amount of water in jug C?

 ml

# Challenge 1

Dani has 1 litre 500 ml of juice in a bottle.

She pours some of the juice into a jug.



How much juice is in the bottle now?

 l  ml

# Challenge 2

Leanna has a record of how much milk she has in her café. Work out how much milk is used for each order.

| Amount of milk to start | Amount of milk used | Amount of milk left |
|-------------------------|---------------------|---------------------|
| 1L and 330ml            |                     | 1L and 300ml        |
| 1L and 300ml            |                     | 1L and 20ml         |
| 1L and 20ml             |                     | 1L                  |
| 1L                      |                     | 600ml               |

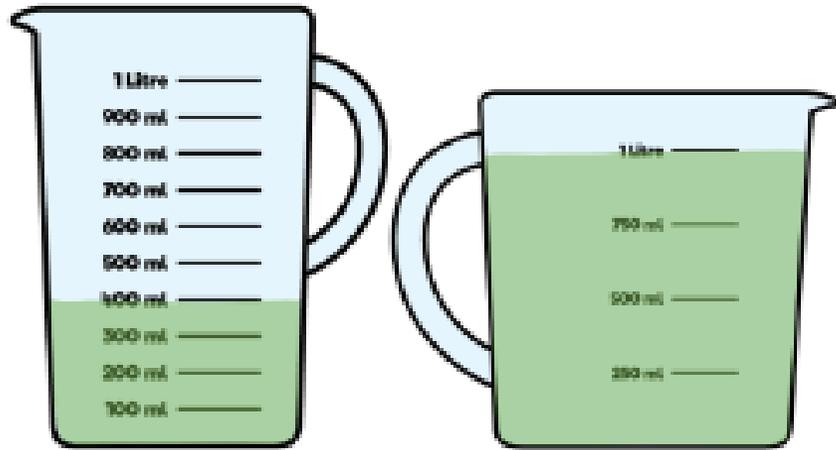
Tommy is pouring drinks using these jugs.

A drink is 125 ml.



Tommy

If I pour three more drinks using jug 2, both jugs will have the same amount of juice in.



Jug 1

Jug 2

Is Tommy correct?

If not, how much juice will be left in jug 2?

?

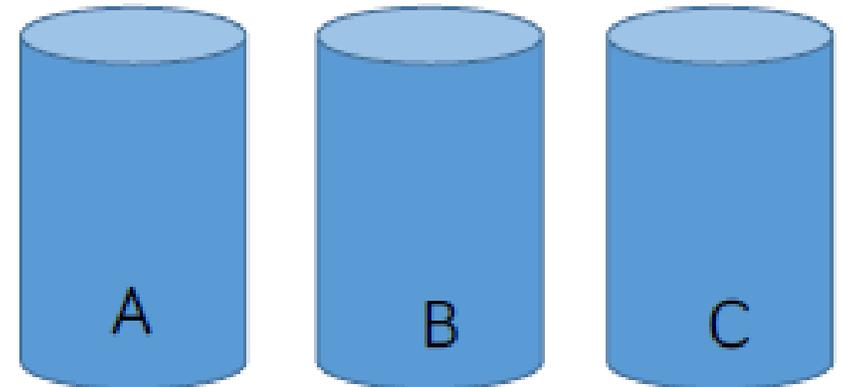
## Challenge 3

Here are some measuring cylinders.  
The total liquid in all three cylinders is 400 ml.

Cylinder A has half of the total amount in it.

Cylinder B has 67 ml less than Cylinder A.

How much liquid does each cylinder contain?



# Answers

## Challenge 1

- a) 600ml
- b) 100ml
- c) Jug C has 700ml

Dani has 1L and 200ml juice left

# Challenge 2 Answers

Leanna has a record of how much milk she has in her café. Work out how much milk is used for each order.

| Amount of milk to start | Amount of milk used | Amount of milk left |
|-------------------------|---------------------|---------------------|
| 1L and 330ml            | 30ml                | 1L and 300ml        |
| 1L and 300ml            | 280ml               | 1L and 20ml         |
| 1L and 20ml             | 20ml                | 1L                  |
| 1L                      | 400ml               | 600ml               |

# Challenge 3 answers

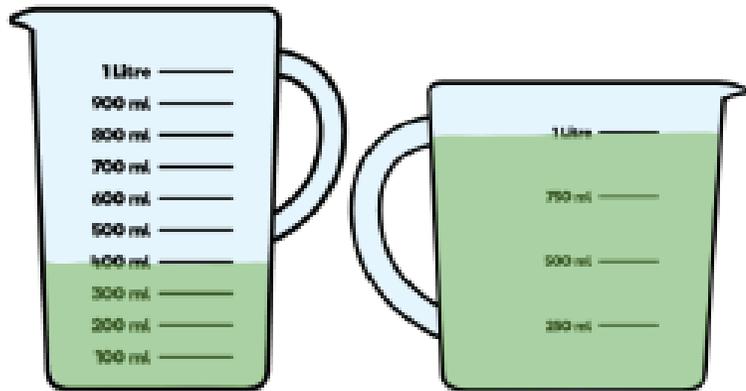
Tommy is pouring drinks using these jugs.

A drink is 125 ml.



Tommy

If I pour three more drinks using jug 2, both jugs will have the same amount of juice in.



Jug 1

Jug 2

Is Tommy correct?

If not, how much juice will be left in jug 2?

Tommy is not correct.

If Tommy makes three more drinks he will use a further 375 ml of juice.

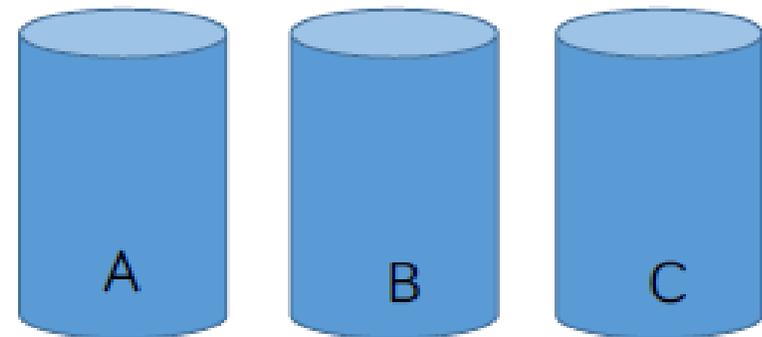
$$1\text{ l} - 375\text{ ml} = 625\text{ ml}$$

Here are some measuring cylinders. The total liquid in all three cylinders is 400 ml.

Cylinder A has half of the total amount in it.

Cylinder B has 67 ml less than Cylinder A.

How much liquid does each cylinder contain?



A: 200 ml

B: 133 ml

C: 67 ml