



## Year 3 Maths Home Learning | Summer Term



W.C. 6<sup>th</sup> July

Use these worksheets to work from **and not on**. All you need is a piece of paper, pencil and a ruler.

[s83year3@st-annes.solihull.sch.uk](mailto:s83year3@st-annes.solihull.sch.uk)

After watching the videos and having a go at the practise activities on BBC Bitesize, have a go at these activities. Depending on your confidence choose Mild, Medium or Spicy.

### Maths

**Deeper Learning** – You may wish to deepen your learning by looking at time!

**Time:**

Which time shows an AM time?

- A** 02:35 in the morning  
**B** 2:35 in the afternoon  
**C** Midday  
**D** A and C

A TV programme starts at 5:50 and finishes at 6:35 How long was it on for?

- A** 45 minutes  
**B** 15 minutes  
**C**  $\frac{3}{4}$  of an hour  
**D** A and C

### Extra spicy challenge!

Hannah is training for a race.

On Monday she completed her training in 1 hour and 5 minutes.

On Tuesday she completed her training in 48 minutes.

How much quicker was she on Tuesday?

- A** 43 minutes  
**B** 17 minutes  
**C** 53 minutes  
**D** 113 minutes

*We also have  
Maths activities on  
Purple Mash for  
you!*

# Monday

<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

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

## Measure mass in grams and kilograms

### Mild

1 What is the mass of each object?

a)



b)



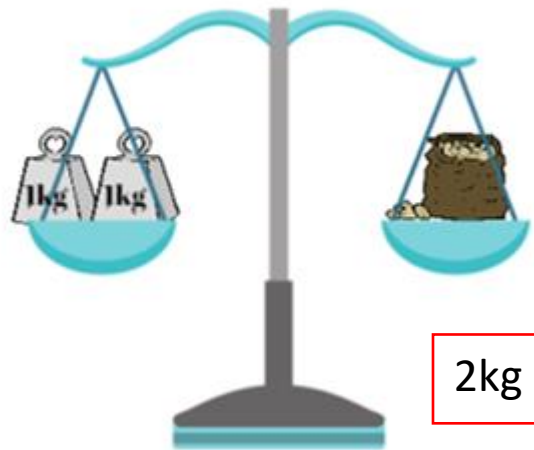
c)



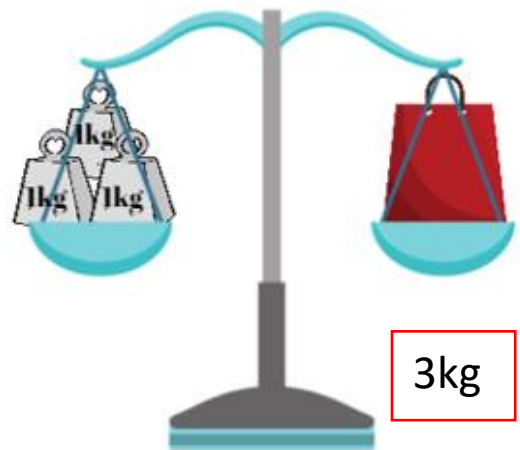
2 How many grams does the ruler weigh?



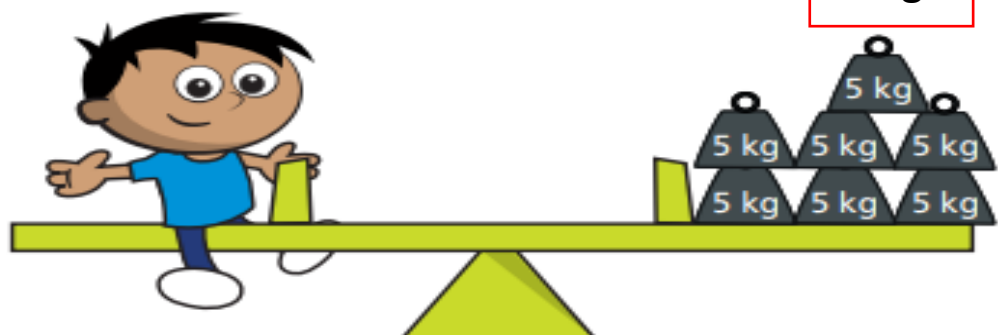
How much do the potatoes weigh?



How much does the bag weigh?

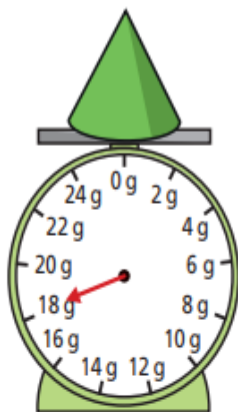


How many kilograms does Amir weigh?

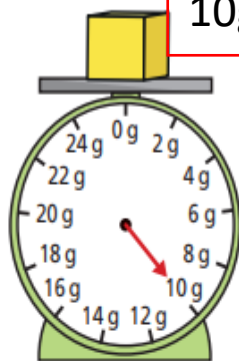


What is the mass of each 3D shape?

a)



b)



A – 18g b – 10g

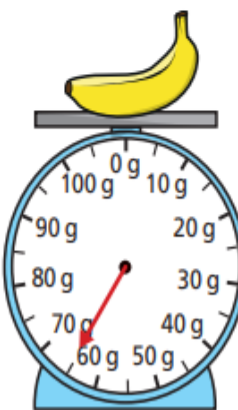


a) Which weights will balance the scale?

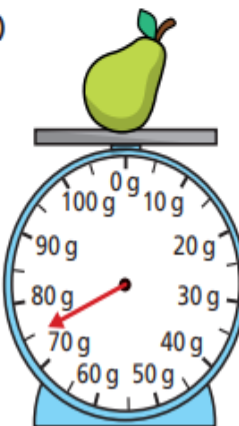
b) Find another way.

What is the mass of each piece of fruit?

a)



b)



A – 65g b – 75g The pear is heavier.

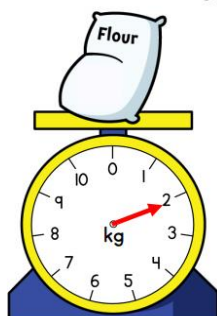
c) Which piece of fruit is heavier?

Medium

**True or False?**

Measure Mass (1)

The bag of flour weighs 2 grams.

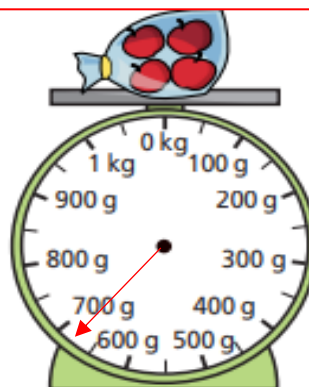


**False – it weighs two kilograms, they have read the scale incorrectly.**

Tom weighs some apples.

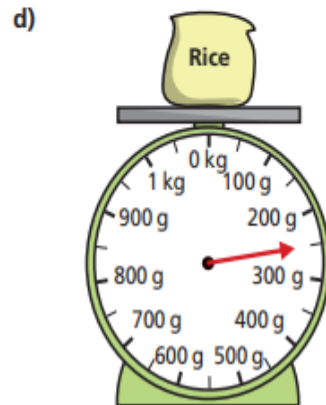
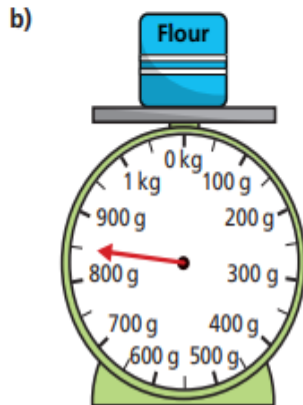
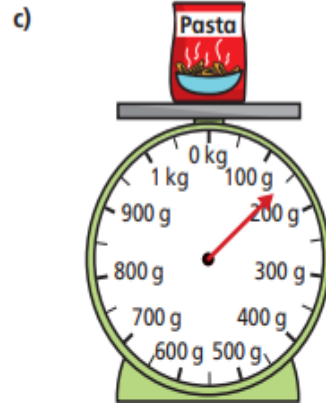
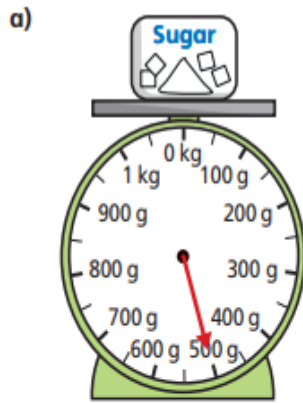
The apples weigh 650 g in total.

Draw an arrow on the scales to show the weight of the apples.



*If you cannot draw the arrow, can you tell an adult where the arrow should be?*

What is the mass of each object?



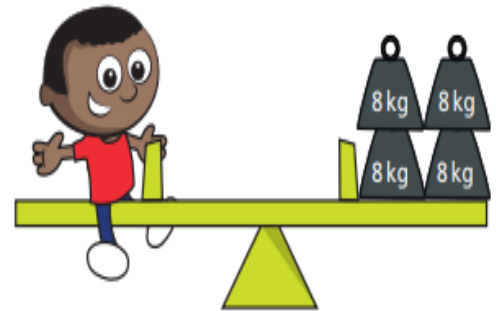
a - 500g

b - 850g

c - 150g

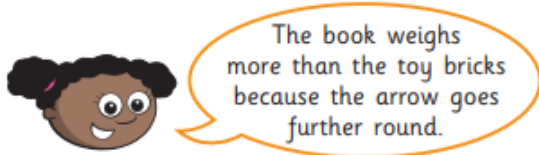
d - 250g

How many kilograms does Mo weigh?



32kg

Whitney is weighing some objects.



Do you agree with Whitney?  
Why?

Whitney is incorrect because the scale says the bricks are 3.5kg and the book is not even 2kg. The scales are different.

True or false?

The bag weighs more than 1kg.



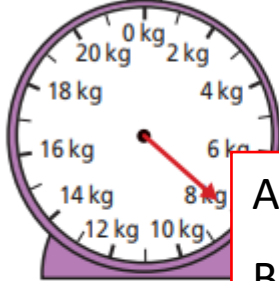
True - it weighs 1.5kg



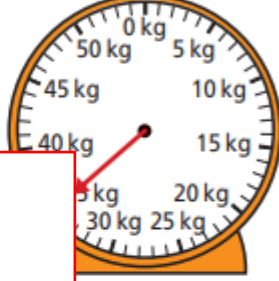
## Spicy

What is the mass of each bag?

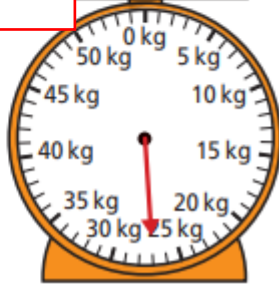
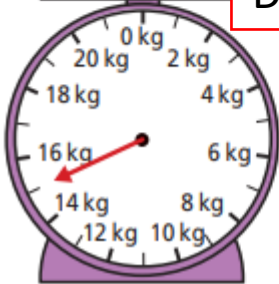
a)



c)



b)



A – 8kg

B – 15kg

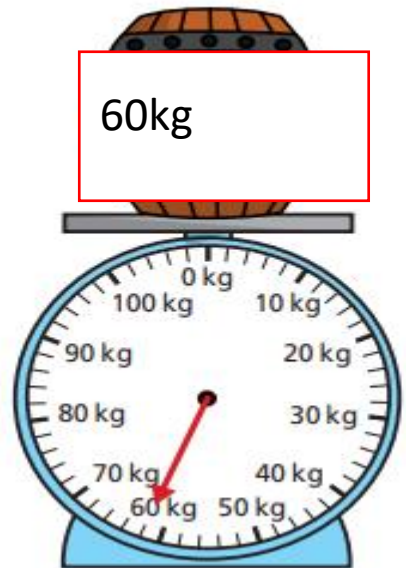
C – 35kg

D – 27kg

What is the mass of each barrel?

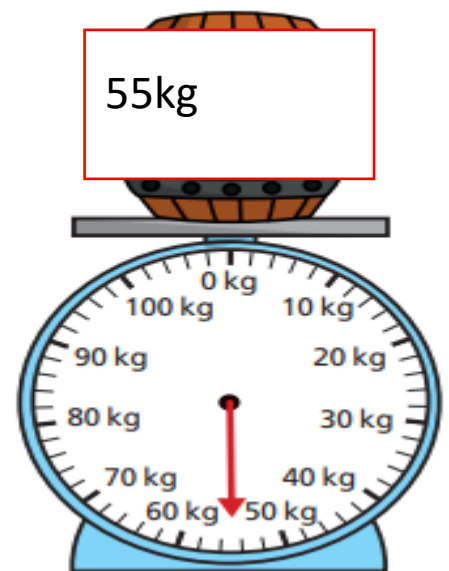
a)

60kg

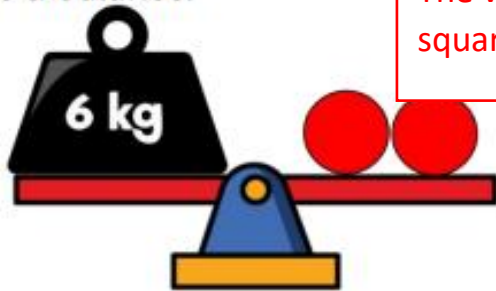


b)

55kg

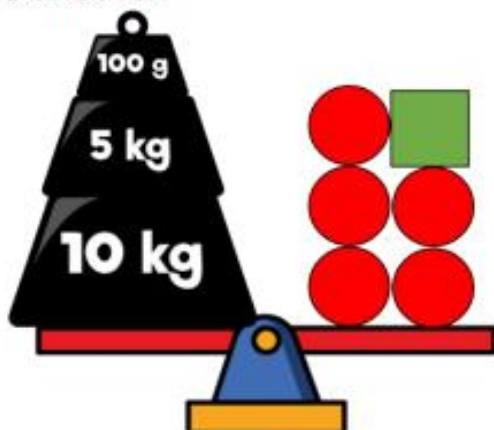


Here is a balance.



The value of the square is 100g.

Here is another.

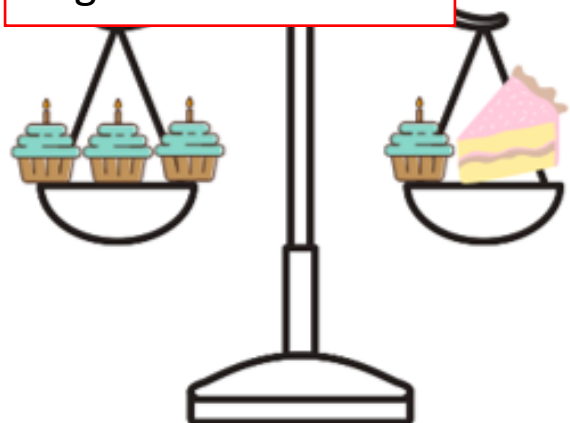


Work out the value of



The pink iced cake weighs 50g. How much does each side weigh?

The cupcakes weigh 25g each.



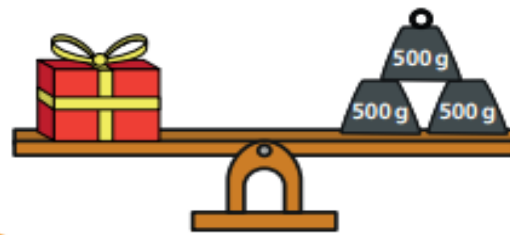
Amir and Annie each have a present.

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?

Amir is correct because  $1000 = 1\text{kg}$ .

**Tuesday**

<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

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

## Comparing Mass

### Mild



The gummy bear is \_\_\_\_\_ than the fish bowl.

A

lighter

B

heavier

C

light

D

smaller

*How do you know this?*

Kim has not looked at the scale  
– the cube is heavier because it  
is dragging the scale down.

Kim puts two objects on the scales.



The cube is lighter,  
because it is smaller.

What mistake has Kim made?

Use the words **heavier** or **lighter** to complete the sentences.

a)



The ball is \_\_\_\_\_ than the teddy.

b)



The tiger is \_\_\_\_\_ than the lion.

c)



The pear is \_\_\_\_\_ than the apple.

The apple is \_\_\_\_\_ than the pear.

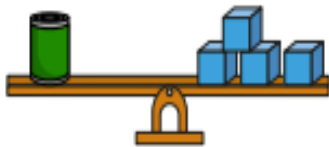
A – heavier

B – lighter

C – lighter

Heavier

Dora balances a tin with blocks.



a) Complete the sentence.

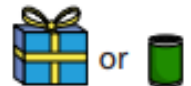
1 tin has the same mass as  blocks.

b) Explain why these scales do not balance.



Which object is heavier?

a)

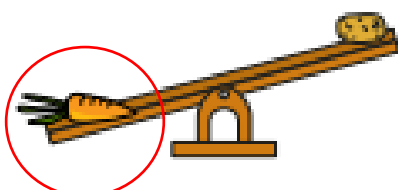


b)

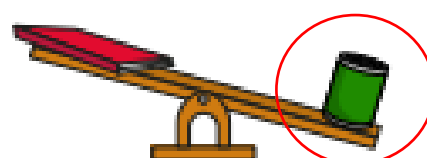


Which is the heavier object on each scale?

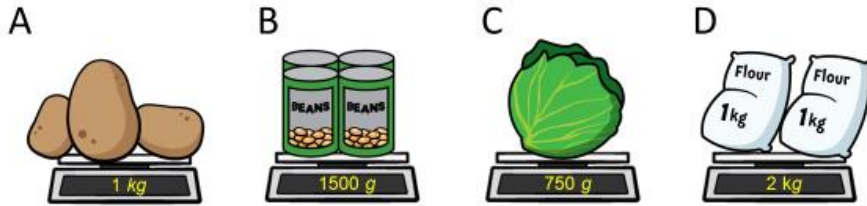
a)



b)



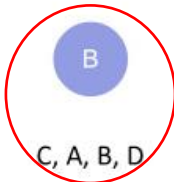
## Medium



Order the objects from lightest to heaviest.



A, D, C, B



C, A, B, D



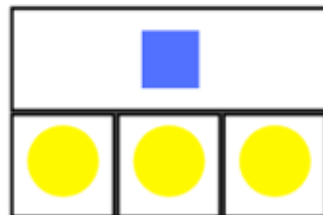
C, B, A, D



C, D, A, B

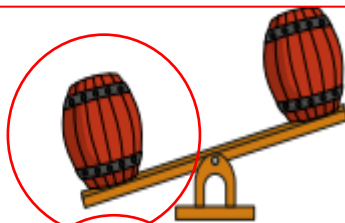
Complete the sentence:

\_\_\_ circles are equivalent to \_\_\_ square.

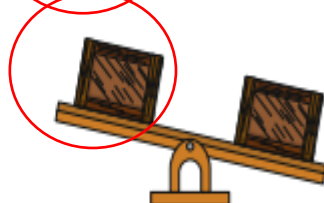


**3 circles are  
equivalent to 1  
square**

a) Which is the heavier barrel?



b) Which is the lighter crate?



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

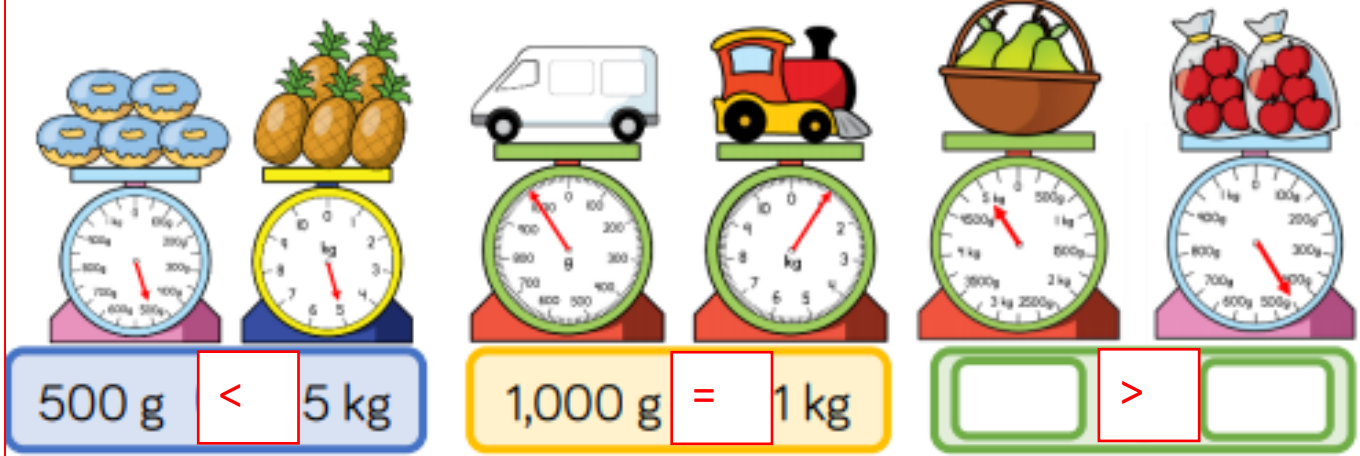
**They are  
both equal**

Which is the greater mass in each pair?





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

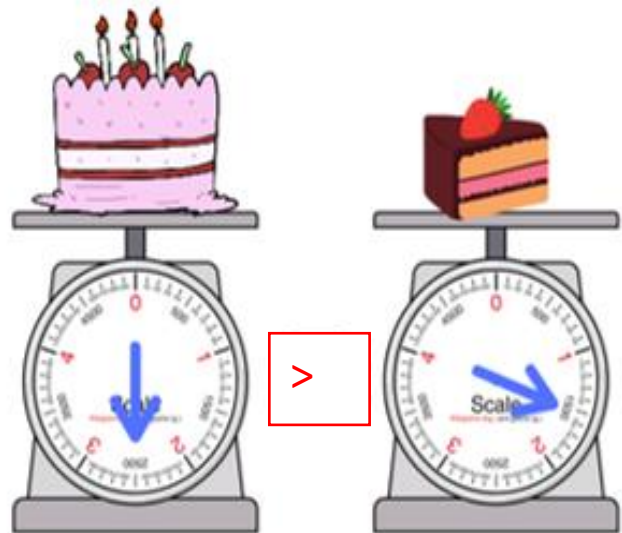


## Spicy

Compare the mass using  $<$ ,  $>$  or  $=$



Compare the mass using  $<$ ,  $>$  or  $=$



Order from lightest to heaviest.



heaviest

lightest

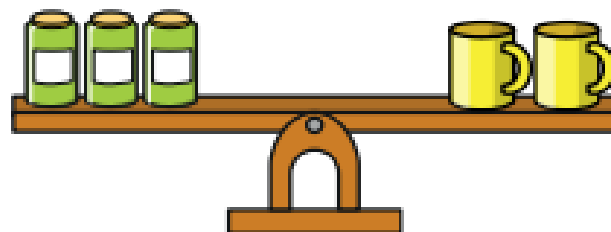


My object weighs  
half of 10kg

My object weighs  
double 5kg

My object weighs  
half of 8kg

*A mug is heavier as there are only two.*



Is a jar or a mug heavier?

How do you know?

Three weights are shown on the scales.



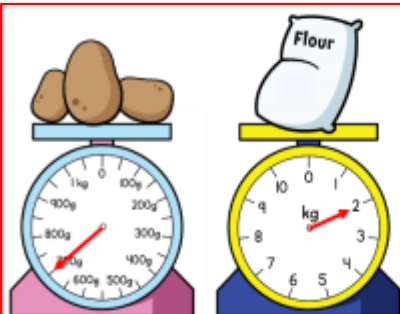
Write the weights in order, starting with the lightest.

55kg 900g

60kg 200g

60kg 350g

*Remember to check the scales!*



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.

I agree with Alex because the first scale is measured in grams and the second is kg. The flour is heavier.

# Wednesday

<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

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

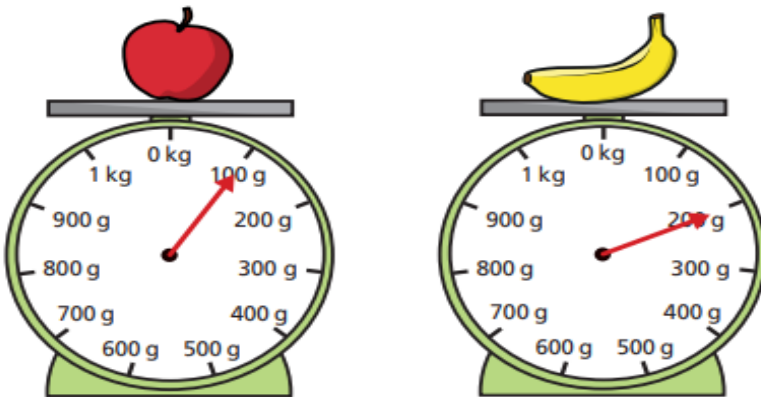
## Add and Subtract Masses

### Mild

|                                                                                   |                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |  |
| chimpanzee                                                                        | Bactrian camel                                                                    | zebra                                                                              |
| mass                                                                              | mass                                                                              | mass                                                                               |
| 60kg                                                                              | 480kg                                                                             | 350kg                                                                              |

*Which animal is the heaviest?*

Teddy is measuring the weight of some fruit.



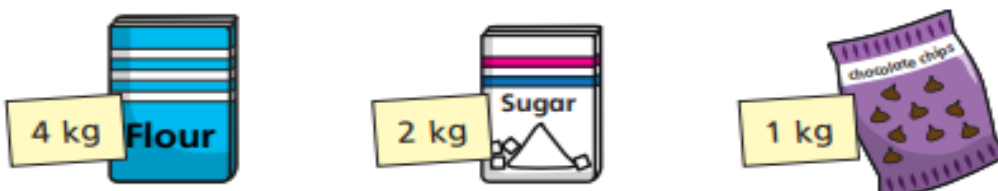
A - 100g

B - 200g

C - 300g

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

Alex is measuring the weight of some ingredients.

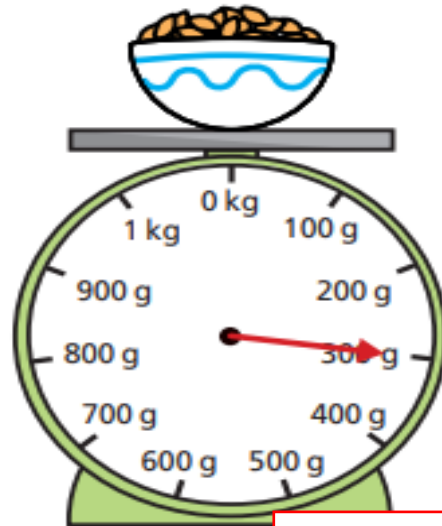
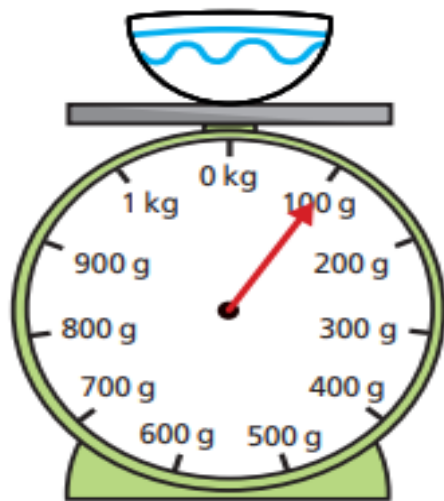


**7kg**

What is the total weight of the ingredients?

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?

**200g**

1. Ron purchased 60 kg sugar from one shop and 45 kg sugar from another shop. How much sugar did he buy? **95kg**
2. Sam had 75 kg of rice. He sold 10 kg of it. How much rice does he have left? **65kg**
3. Aaron weighs 40 kg and Barun weighs 45 kg. What do they both weigh altogether? **95kg**
4. Mike, David and Ken have 30 kg, 25 kg, and 20 kg of sweets. Who has the most? **Mike has the most sweets.**

### Medium

Calculate the following questions.....

3 kg and 450 g + 4 kg and 200 g

**7kg and 650g**

4 kg and 105 g + 2 kg and 300 g

**6kg and 405g**

4 kg and 400 g – 2 kg and 100 g

**2kg and 300g**

8 kg and 600 g – 1 kg and 550 g

**7kg and 50g**



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?

450g



How much do the sweets and beans weigh altogether?

A

611 g

B

501 g

C

511 g

D

521 g



What is the total weight of the beans and the apples altogether?

A

500 g

B

950 g

C

955 g

D

730 g



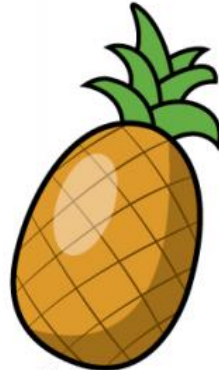
# True or False?

Add and subtract Mass

1 pineapple weighs the same as 10 strawberries and 5 bananas.



50 g



1 kg

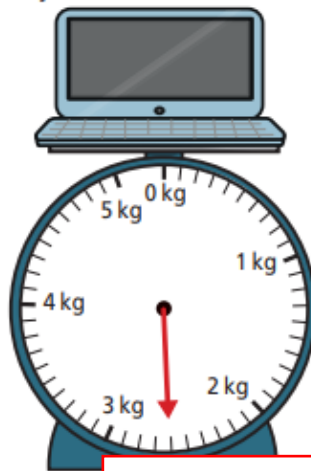
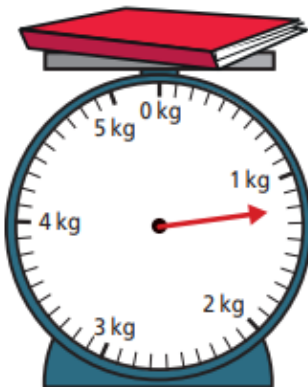


100 g

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

## Spicy

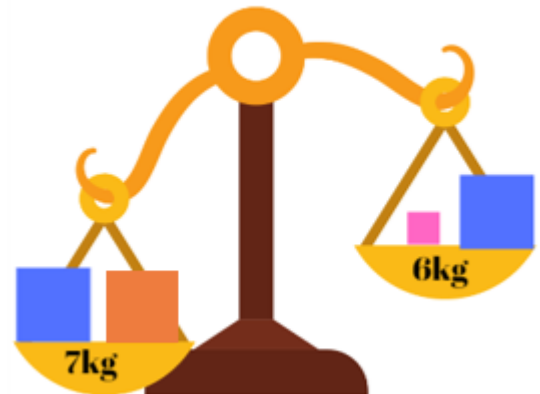
Ron is measuring the mass of some objects in the classroom.



Ron puts both objects on the same scale.  
What is the total mass of the objects?

3 kg and 700g

The blue squares weigh 4kg.  
What do the other squares weigh?



Pink - 2kg

Orange - 3kg

Complete the number sentences.

a)  $1\text{ kg } 250\text{ g} + 5\text{ kg } 300\text{ g} = \boxed{\phantom{00}}\text{ kg } \boxed{\phantom{00}}\text{ g}$

b)  $3\text{ kg } 450\text{ g} + 8\text{ kg } 120\text{ g} = \boxed{\phantom{00}}\text{ kg } \boxed{\phantom{00}}\text{ g}$

c)  $15\text{ kg } 960\text{ g} - 11\text{ kg } 270\text{ g} = \boxed{\phantom{00}}\text{ kg } \boxed{\phantom{00}}\text{ g}$

d)  $36\text{ kg } 317\text{ g} - 21\text{ kg } 199\text{ g} = \boxed{\phantom{00}}\text{ kg } \boxed{\phantom{00}}\text{ g}$

e)  $1\text{ kg} - \boxed{\phantom{000}}\text{ g} = 200\text{ g}$

a - 6kg and 550 g

b - 11kg and 570g

c - 4kg and 690g

d - 15kg and 118g

e - 800g

Two toy soldiers weigh 60 g.  
Three cakes weigh the same as two toy soldiers.

How much does one cake weigh?



20g

30g

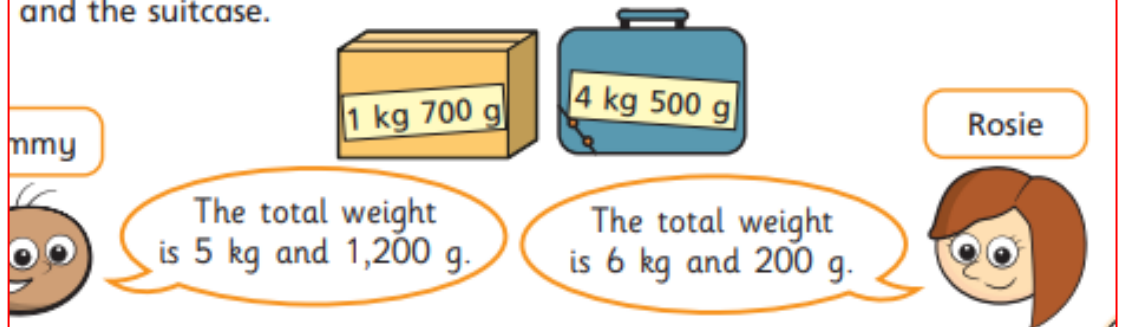
Two orange ducklings weigh 120g.  
Three ducks weigh the same as two orange ducklings.

How much does one duckling weigh?



Rosie is  
correct.

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



Thursday

<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

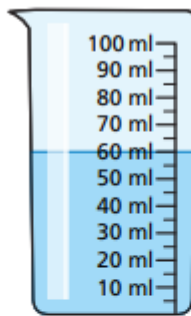
<https://whiterosemaths.com/homelearning/year-3/>

Measure capacity in millilitres and litres

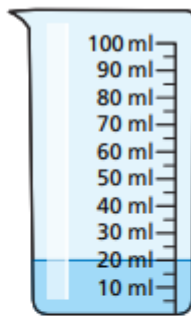
## Mild

1 How much water is there in each beaker?

a)



c)



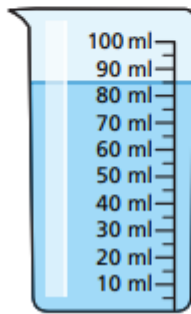
A - 60ml

B - 85ml

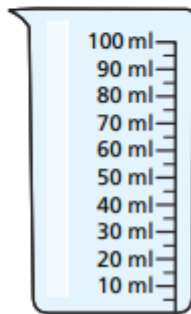
C - 20ml

D - 0ml

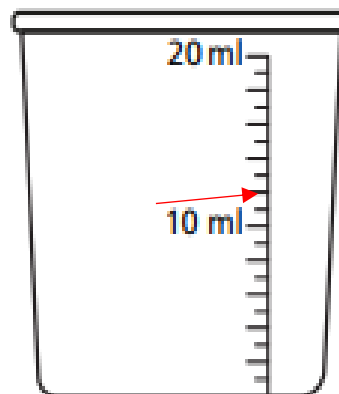
b)



d)



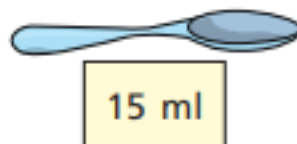
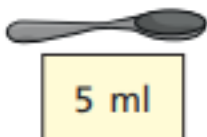
Jack pours 12 ml of water into a measuring container.



Where would the water reach?

A teaspoon holds 5 ml.

A tablespoon holds 15 ml.



Work out the total capacity of the spoons.

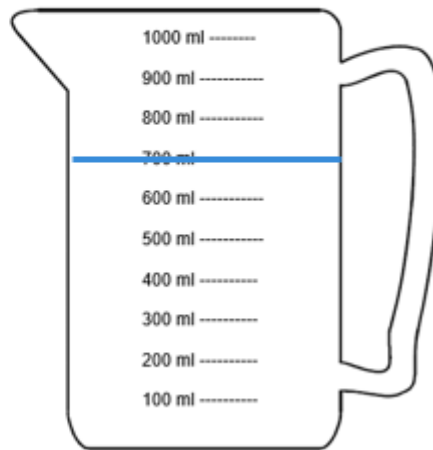
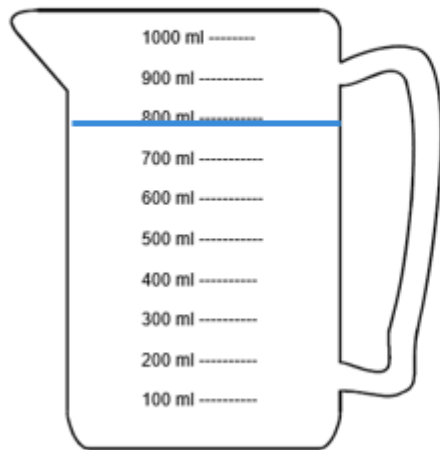


A - 25ml

B - 30ml

C - 35ml

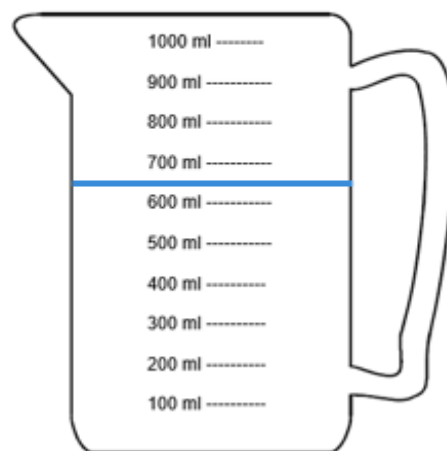
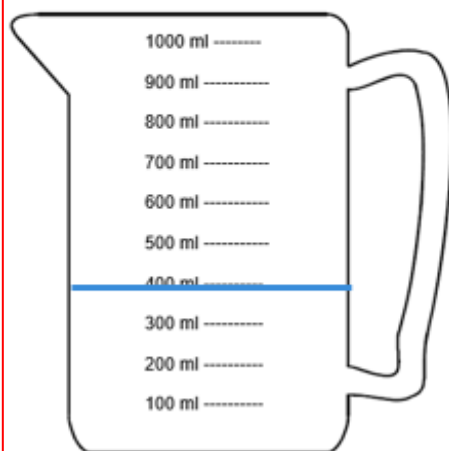
How much liquid is in the jugs?



**A - 800ml**

**B - 700ml**

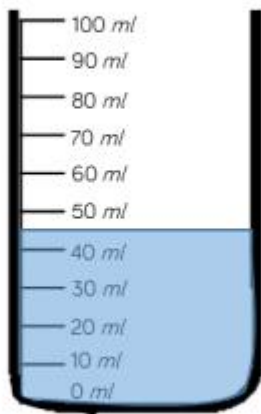
How much liquid is in the jugs?



**A - 400ml      b - 650ml**

## Medium

Estimate the amount of water in the container.



Explain why you have given your answer.

**45ml because it is in between 40 and 50ml.**

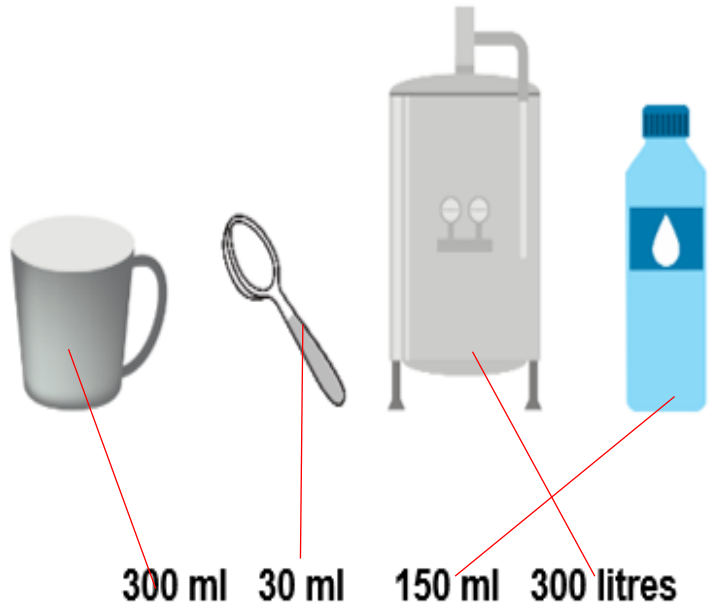
**A - 400ml**

**B - 200ml**

**C - 750ml**

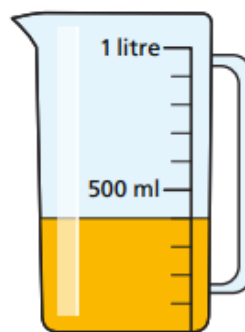
**d- 950ml**

Match the capacity to the appropriate container.

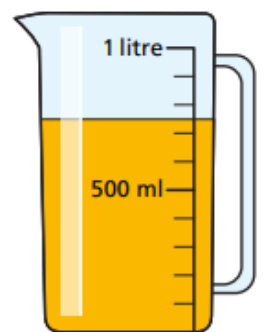


What is the volume of juice in each jug?

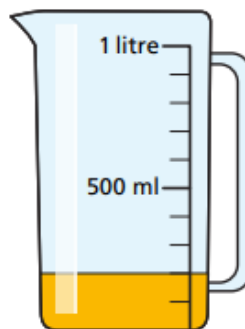
a)



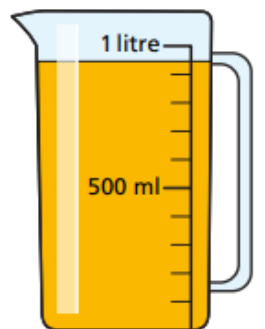
c)



b)



d)





A recipe includes 45 ml of lemon juice.



Dora

I can measure this using a teaspoon.



teaspoon 5 ml



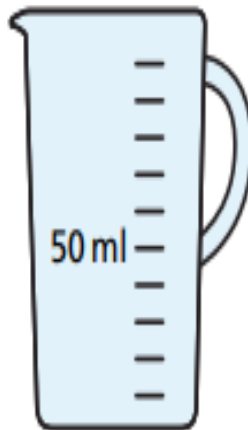
tablespoon 15 ml

**9 teaspoons**

a) How many teaspoons is 45 ml?

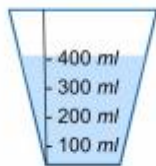
Mo opens a can of drink.

He pours it all into a measuring jug.



*Where do you think the drink will reach?*

**It will reach the top.**



How much water is in the glass?



4 litres



4 millilitres



400 millilitres



400 litres

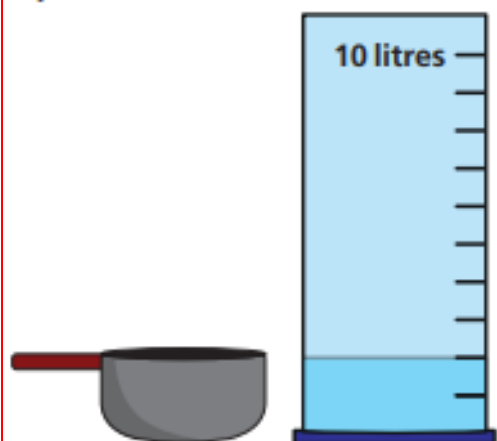
## Spicy

Filip fills the saucepan and the bottle with water.

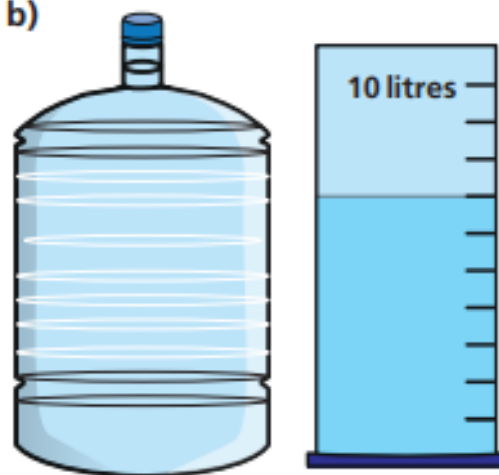
He pours the water into some measuring cylinders.

What is the capacity of each container?

a)



b)



A - 2  
litres

B - 7  
litres



The capacity of the bottle is  the capacity of the glass.

A

<

B

>

C

=

D

ml

Order the measures from least to most.

a) 250 ml

b) 1 litre

c)  $\frac{1}{2}$  litre

d) 750 ml

A

c, b, a, d

B

b, d, c, a

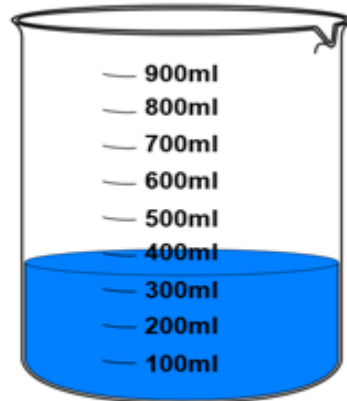
C

a, c, d, b

D

c, a, d, b

Jane says, "The container has more 400ml of liquid in it."



Do you agree?  
Explain.

Disagree -  
the image  
makes it look  
like there is  
more but that  
is the back of  
the container,  
the first line  
shows that  
there is  
300ml in it.

a) Huan fills a fish tank with water.

Estimate the amount of water in the tank.

10 l

100 ml

1 l

10 ml



b) Tom has a can of pop.

Estimate the amount of drink in the can.

5 ml

50 ml

500 ml

500 l



Friday

Times Table Rockstars

Have a go at your times tables on TTRockstars this week. Maybe you could battle with one of your friends? We can't wait to see how much your times tables have improved!

# Quiz

- 1 Circle the most appropriate unit to measure the capacity of the tea cup.



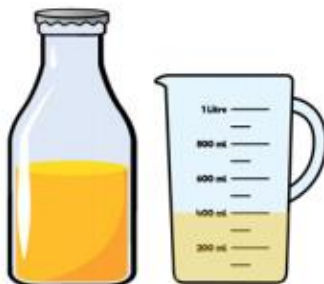
g      kg      ml      l

- 2 Circle the most appropriate unit to measure the weight of the tea bag.



g      kg      ml      l

- 5 Kim has a bottle of orange juice. She pours some juice into the jug. She has 1 litre and 450 ml of juice left in the bottle.



How much juice was in the bottle at the start?

1 l and 850 ml

- 6 Use  $<$ ,  $>$  or  $=$  to make the statements correct.

$$200 \text{ g} < 2 \text{ kg}$$

$$300 \text{ g} + 400 \text{ g} = 450 \text{ g} + 250 \text{ g}$$

$$4 \text{ litres, } 200 \text{ ml} > 3 \text{ litres, } 850 \text{ ml}$$

- 3 What is the mass of the strawberries?

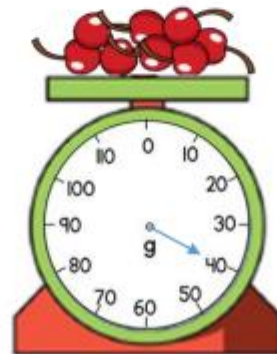


70 g

- 4 One cherry weighs 5 grams. How much do 8 cherries weigh?

40 g

Draw an arrow to show the mass of 8 cherries on the scale.



7



$$2 \text{ donuts} = 200 \text{ grams}$$

Use this information to complete the sentences.

$$4 \text{ cookies} = 200 \text{ grams}$$

$$1 \text{ cookie} = 50 \text{ grams}$$

$$10 \text{ donuts} = 1 \text{ kilogram}$$

- 8 Alex has a 1 litre bottle of water. She pours 3 glasses of water. There is 150 ml in each glass. How much water is left in the bottle?



550 ml