

Measure mass in grams



1 What is the mass of each object?

a)



The pencil has a mass of  g.

b)



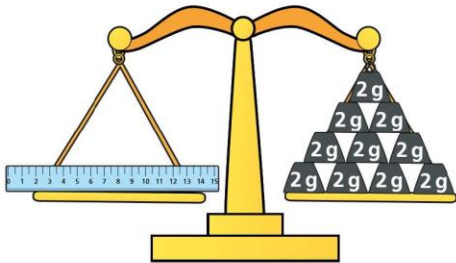
The teddy has a mass of  g.

c)



The apple has a mass of  g.

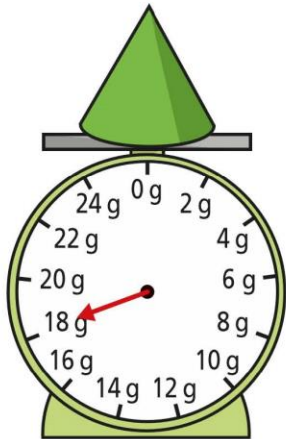
2 How many grams does the ruler weigh?



g

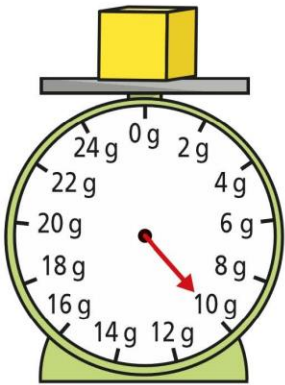
3 What is the mass of each 3D shape?

a)



g

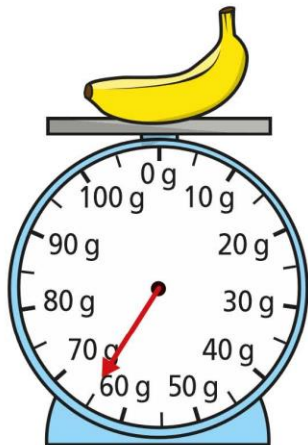
b)



g

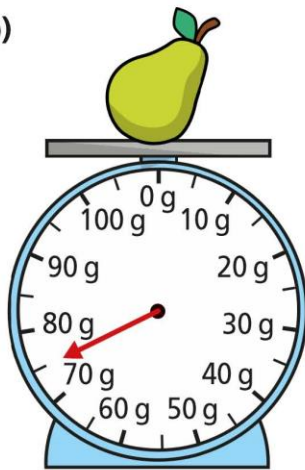
4 What is the mass of each piece of fruit?

a)



g

b)

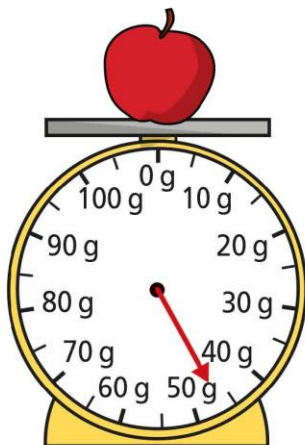


g

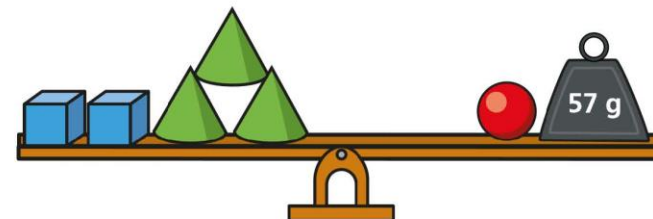
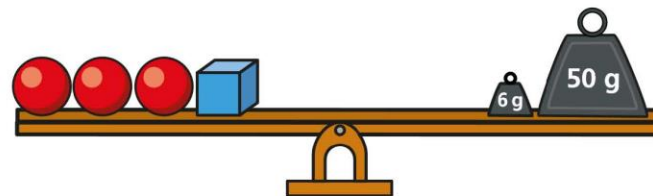
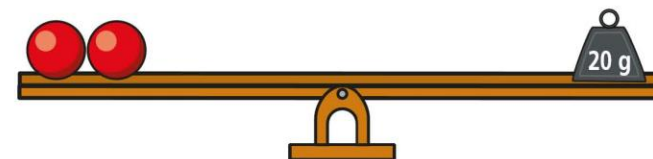
c) Which piece of fruit is heavier? \_\_\_\_\_


5 Estimate the mass of the apple.


g




6 Work out the mass of each 3D shape.



 =  g

 =  g

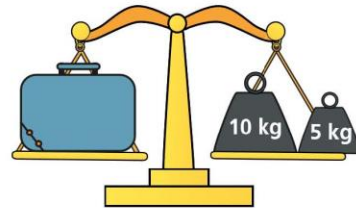
 =  g

How did you work them out? Talk to a partner.

## Measure mass in kilograms

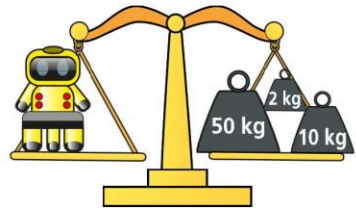
1 What is the mass of each object?

a)



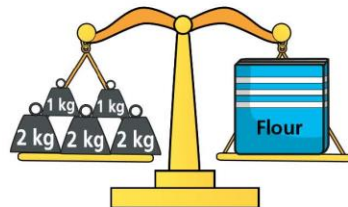
The case has a mass of  kg.

b)



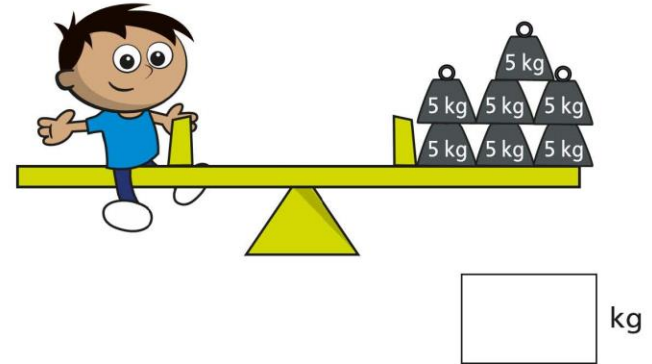
The robot has a mass of  kg.

c)



The box of flour has a mass of  kg.

2 How many kilograms does Amir weigh?



3



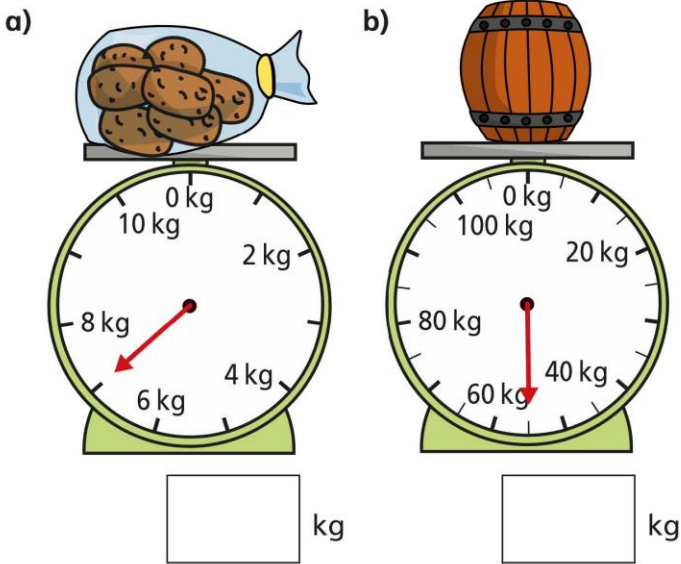
a) Circle the weights that will balance the scale.



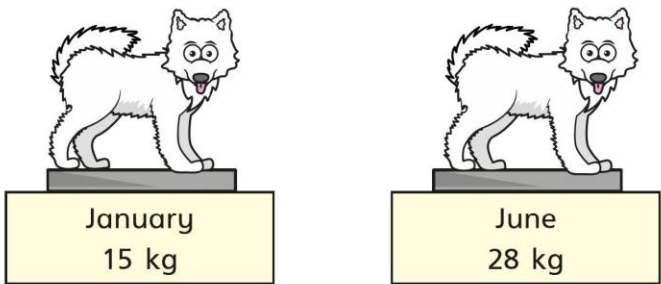
b) Find another way. Circle the weights.



4 What is the mass of each object?



5 a) Mo weighs his dog in January and June.

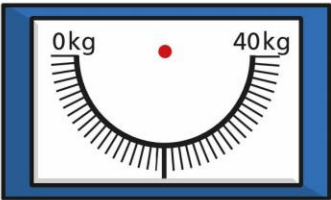


How much heavier is the dog in June?

kg

b) By December, the dog's weight has increased by another 10 kg.

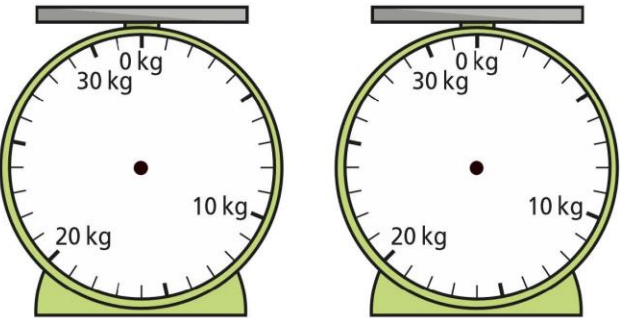
Draw an arrow to show the weight of the dog in December.



By December, Mo's dog weighs  kg.

6 Mark the mass on each scale.

a) 15 kg                      b) 27 kg



Compare volume

1 Here are three glasses.



A



B



C

- a) Which glass is empty? \_\_\_\_\_
- b) Which glass is half full? \_\_\_\_\_
- c) Which glass is full? \_\_\_\_\_

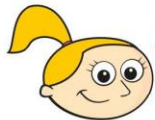
2 Tommy has some milk in a glass.



Circle all the glasses that have more milk than Tommy's.



3 Eva, Ron and Amir have some juice.



This is my juice.



Eva

Shade the glasses to show how much juice Ron and Amir could have.



I have more juice than Eva.



Ron



I have less juice than Eva.



Amir

Compare answers with a partner.

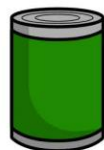




- 4 Which fish tank contains less water?  
Tick your answer.



- 5 Tick the object with the greater capacity.



- 6 Tick the object with the greatest capacity.



- 7 Put these objects in order of how much water they can hold.  
Start with the object that has the smallest capacity.



A



B



C

smallest

greatest

- 8 Whitney says B contains more water than A.



A



B

Why might Whitney think this?

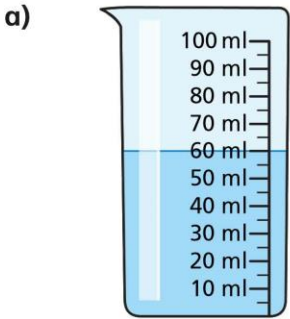
What could she do to check?



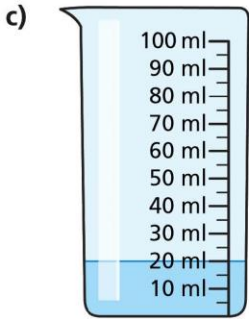
Millilitres



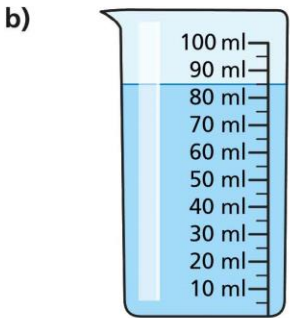
1 How much water is there in each beaker?



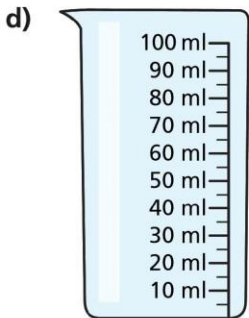
ml



ml

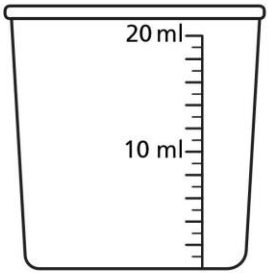


ml



ml

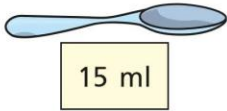
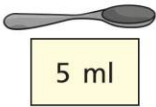
2 Jack pours 12 ml of water into a measuring container.



Draw a line to show where the water reaches.



3 A teaspoon holds 5 ml.  
A tablespoon holds 15 ml.



Work out the total capacity of the spoons.



ml

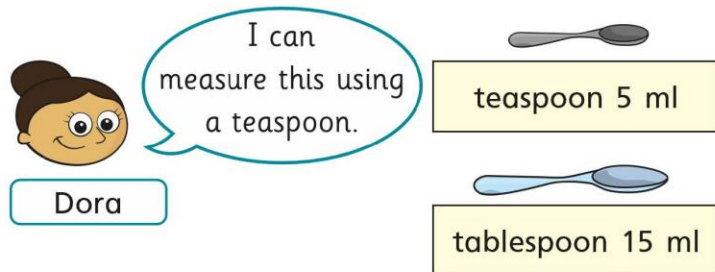


ml

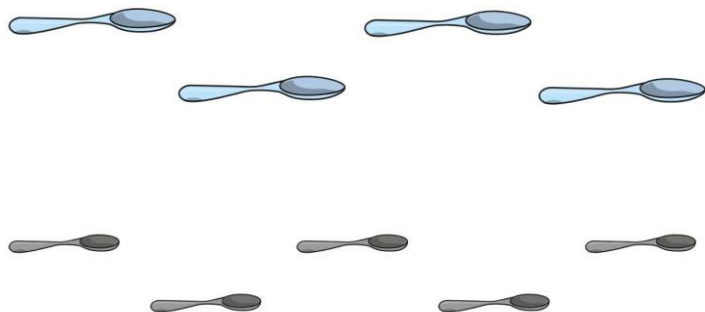


ml

- 4 A recipe includes 45 ml of lemon juice.



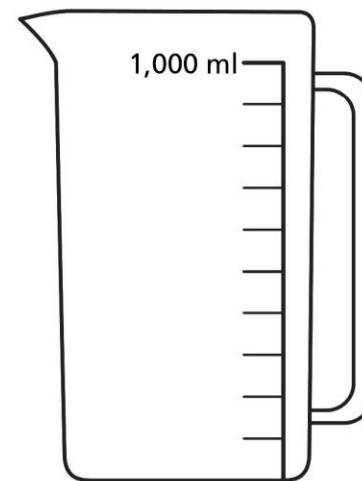
- a) How many teaspoons is 45 ml?
- b) Find another way of measuring 45 ml.  
Circle your answer.



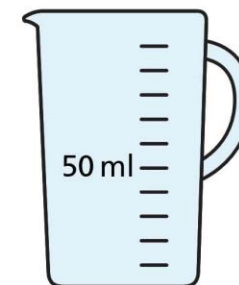
- 5 How can you work out the capacity of an egg cup?  
Talk about it with a partner.



- 6 Draw a line on the jug to show where 500 ml of juice would reach.



- 7 Mo opens a can of drink.  
He pours it all into a measuring jug.



Draw a line to show where the drink will reach.



Friday 3<sup>rd</sup> July




Thirsty?

*Use the pictures on the next page.*

*Cut out the pictures.*

*Can you lay out the pictures of the drinks in the way described by the clue cards?*

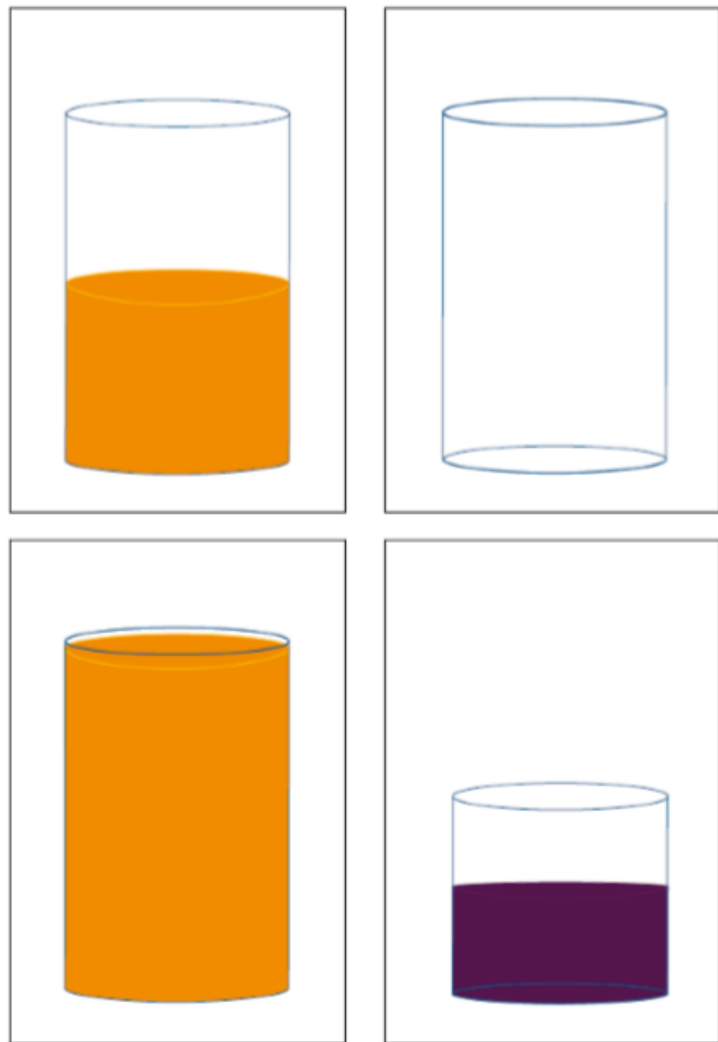
There are seven glasses in a line. Put them in the correct order.	The third glass and the fifth glass are empty.
The first glass is full of blackcurrant juice.	The two glasses full of orange juice are next to each other.
The last glass is tall, and it is full.	The middle glass is half full.
You do not need this glass: 	The tall glasses are second, fifth and last in the line.
The second glass is half full.	There is orange juice in the second, sixth and seventh glasses.

Friday 3<sup>rd</sup> July

<https://nrich.maths.org/6971>



Thirsty?



Thirsty?

