

# Units- Questions

Key Stage 2: 2003 Paper A

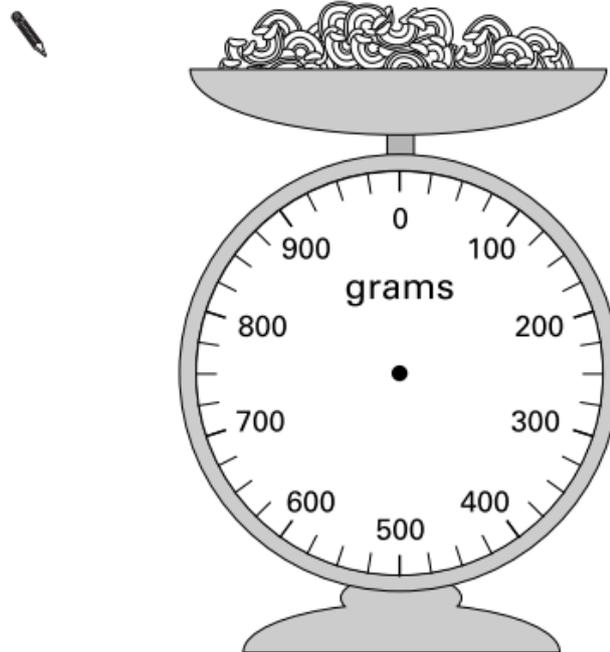
1.

2

Jamie is cooking pasta.

He weighs 350 grams of pasta.

Draw an arrow on the scale to show 350 grams.



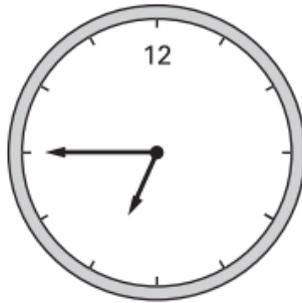
1 mark

2

1.

3

Here is a clock.



How many minutes is it **until** this clock shows 7:30?



3a

1 mark

Here is another clock.

14 : 53

What time will the clock show in 20 minutes?



3b

1 mark

2.

11



The temperature **inside** an aeroplane is  $20^{\circ}\text{C}$ .

The temperature **outside** the aeroplane is  $-30^{\circ}\text{C}$ .

What is the **difference** between these temperatures?



degrees



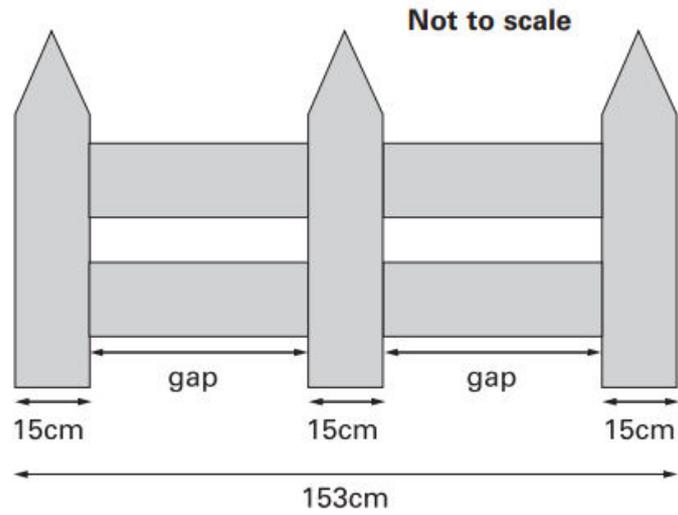
11

1 mark

3.

**18**

This fence has three posts, equally spaced.



Each post is **15 centimetres** wide.

The length of the fence is **153 centimetres**.

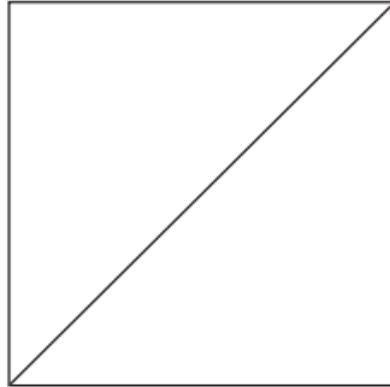
Show your **method**.  
You may get a mark.

**cm**

18i  
18ii  
2 marks

1.

4



Measure accurately the length of the **diagonal** of this square.

Give your answer in **centimetres**.



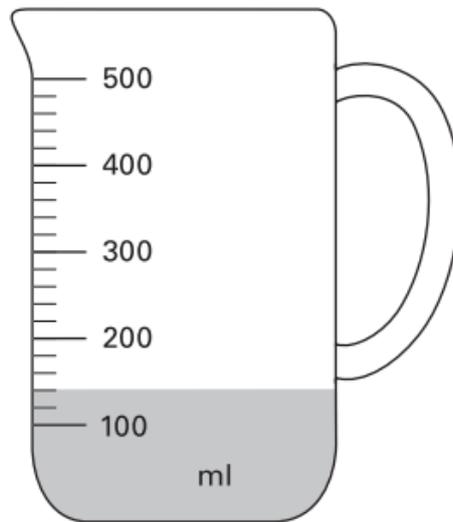
1 mark 4

2.

**16**

Mr Khan makes a blackcurrant drink for a party.

He pours blackcurrant squash into a jug.



How much water must he add to make **500 millilitres** of drink?



16

1 mark

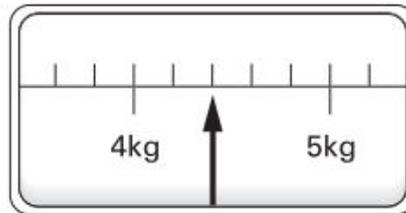
1.

15

This scale shows the weight of Fred's cat.



Fred's cat



What is the weight of Fred's cat?



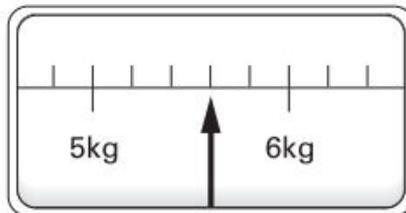
15a

1 mark

This scale shows the weight of Fred's dog.



Fred's dog



How much **more** does Fred's dog weigh than his cat?

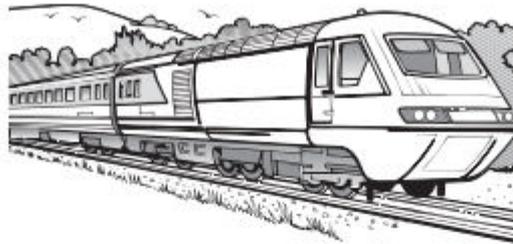


15b

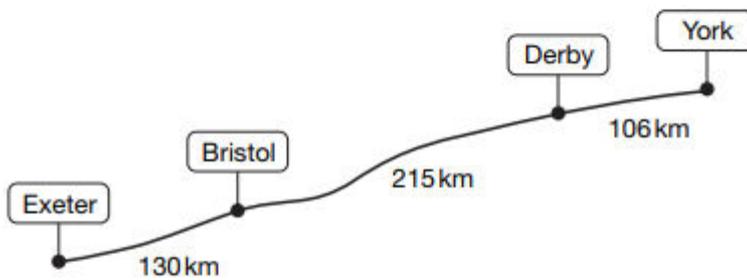
1 mark

1.

8



The diagram shows distances on a train journey from Exeter to York.



How many kilometres is it altogether from **Exeter** to **York**?

  km

     / 100  
1 mark

What is the distance from **Derby** to **York** rounded to the nearest 10 km?

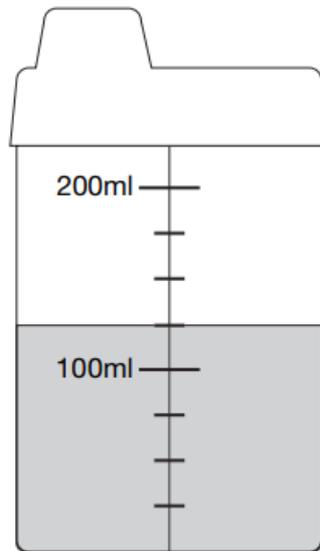
  km

     / 100  
1 mark

1.

5

Here is a baby's drinking cup.



How many millilitres of water are in the cup?



5

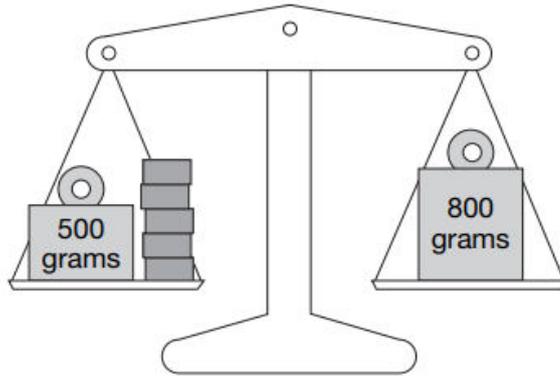
1 mark

2.

17

Lin has five blocks which are all the same.

She balances them on the scale with two weights.



Calculate the weight of **one** block.

Show your **method**.  
You may get a mark.

g

17i

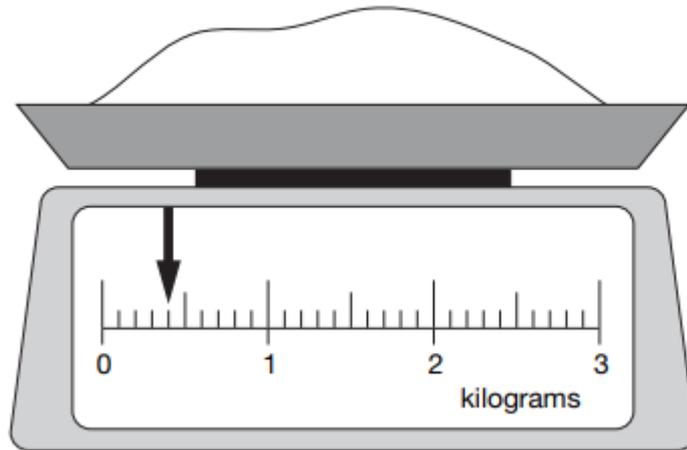
17ii

2 marks

3.

22

Here is some flour on a weighing scale.



How many **grams** of flour are on the scale?



22a

1 mark

How much more flour must be added to the scale to make 1.6kg?



22b

1 mark

Key Stage 2: 2007 Paper A

1.

4

Kate has a piece of ribbon **one metre** long.

She cuts off 30 centimetres.



How many centimetres of ribbon are left?



<b>cm</b>
-----------

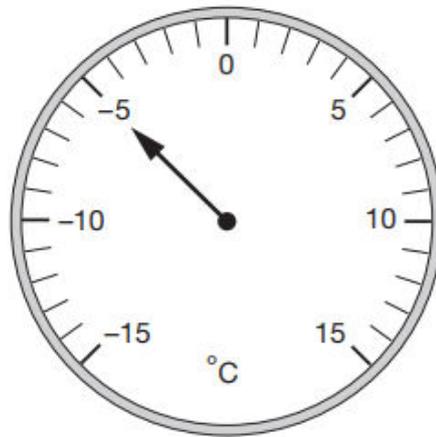
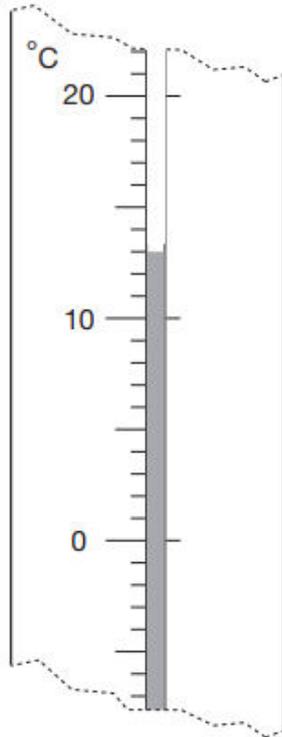
4  
1 mark

2.

13

Here are two thermometers.

They show two different temperatures.



What is the **difference** between the two temperatures?



degrees

1 mark

Key Stage 2: 2007 Paper B

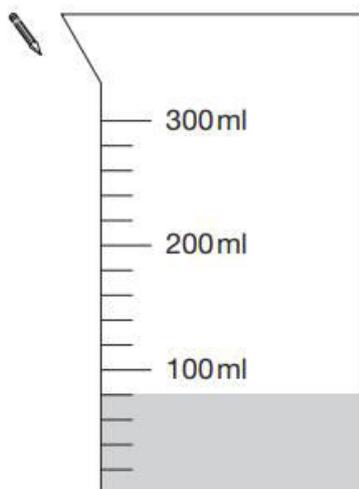
1.

**16**

Hassan has a jug with some water in it.

He adds another 140 millilitres of water.

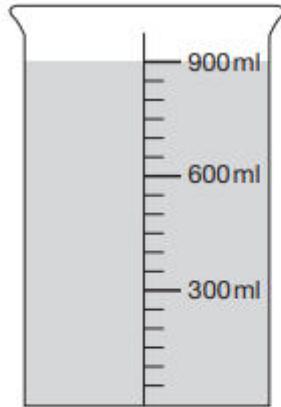
Draw a line to show the new level of water.



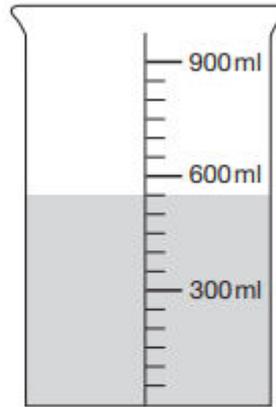
1.

16

This container has 900 millilitres of water in it.



Lara pours out some water so that it looks like this.



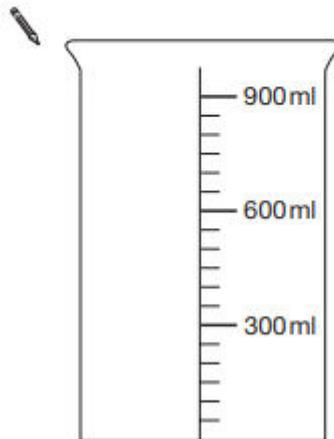
How much water has Lara poured out?

  ml

16a  
1 mark

Then she pours out another 150ml of water.

Draw an arrow (→) to show the new level of the water.



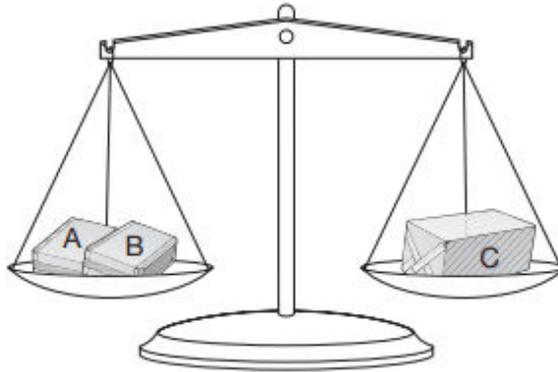
16b  
1 mark

2.

17

Amir has three parcels.

Parcels A and B together weigh the same as parcel C.



The three parcels weigh 800 grams altogether.

Parcel A weighs 250g.

How much does parcel B weigh?

Show your **working**.  
You may get a mark.

17i

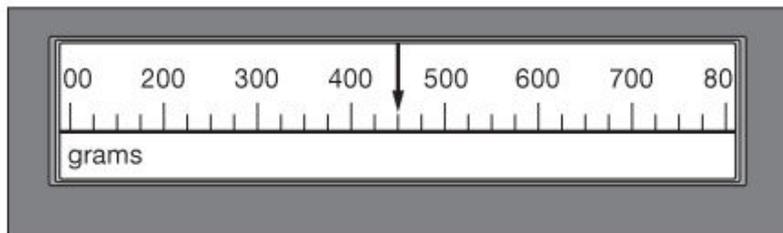
17ii

2 marks

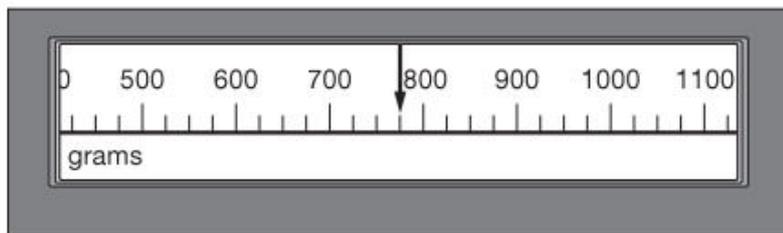
1.

10

This scale shows the mass of Amy's kitten when it was one month old.



This scale shows the mass of the kitten when it was two months old.



What is the increase in mass?

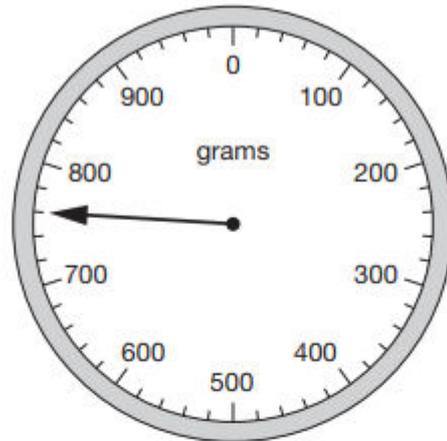
  g

1.

14

Joe places some apples on a weighing scale.

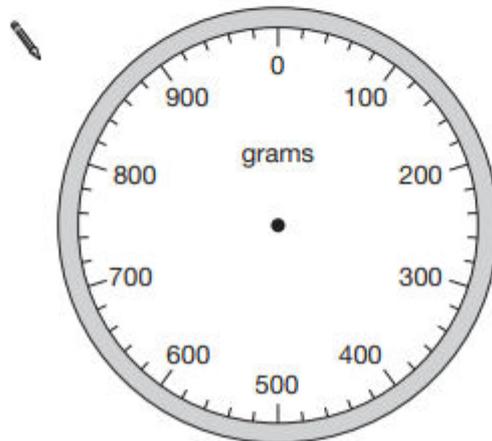
The pointer shows the mass of the apples.



He takes away one apple.

The mass goes down by 120 grams.

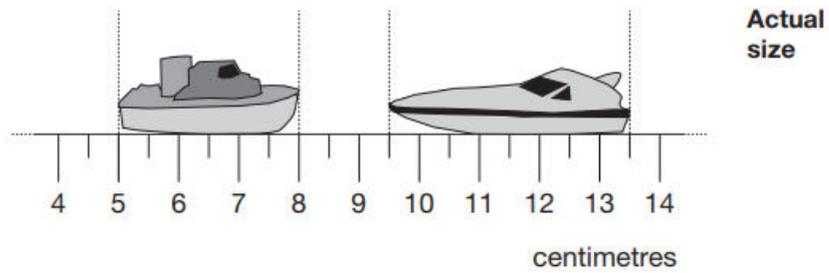
Draw the pointer in its new position on the scale below.



1.

7

Here are two model boats on a centimetre scale.



How far apart are the boats?



7a  
1 mark

What is the **difference** in the lengths of the two boats?

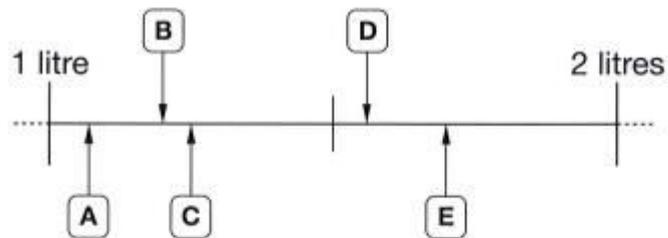


7b  
1 mark

1.

19

Here are five letters on a scale.



Match each letter to one of the capacities in the list below.

-  1200 ml
- 1.7 l
- $1\frac{1}{4}$  l
- 1560 ml
- 1.07 l

194

194

2 marks

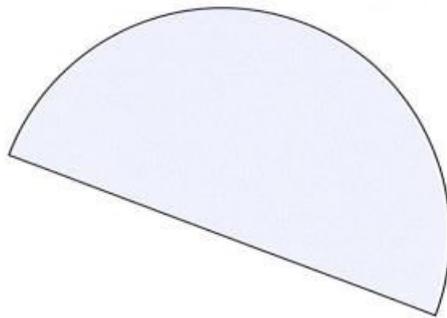
1.

2

Here is a semi-circle.

Measure accurately the length of the straight edge.

Give your answer in **centimetres**.

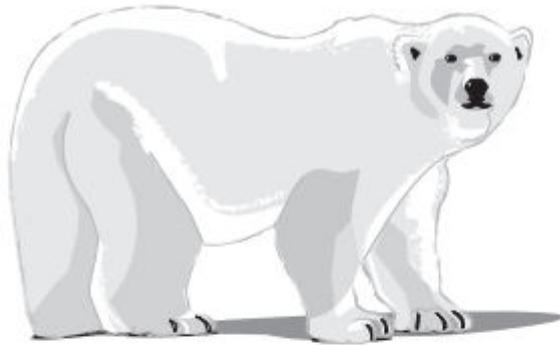
A rectangular box for writing the answer, containing the text "cm".

2  
1 mark

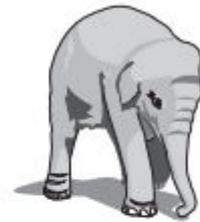
1.

2

In a zoo, the adult polar bear weighs three times more than the baby elephant.



polar bear



elephant

Together they weigh **700** kilograms.

How much does the polar bear weigh?

Show  
your  
method

kg

2 marks

1.

6

Here are four lines: A, B, C and D.



Which two lines have a total length of 18cm?



\_\_\_\_\_ and \_\_\_\_\_

6a

1 mark

Draw a straight line that is 3 centimetres longer than line **B**.

Use a ruler.



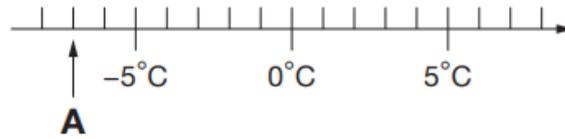
6b

1 mark

2.

**13**

Here is part of a temperature scale.



What is the temperature shown at **A**?



°C

13a

1 mark

What temperature is 20 degrees **higher** than **A**?



°C

13b

1 mark

3.

15

Megan wants to fill a bucket with water.

A bucket holds 6 litres.

A jug holds 500 millilitres.

How many jugs of water does Megan need to fill an empty bucket?

Show your method

15i

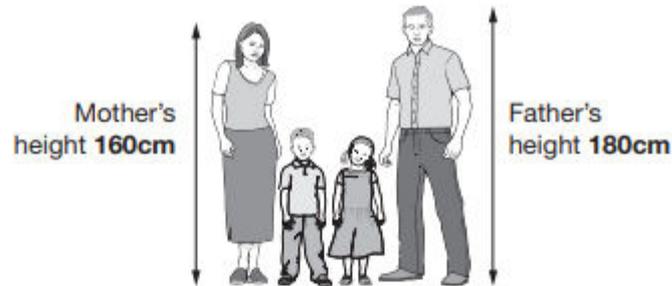
15i

2 marks

1.

3

Here are Alfie and Emma with their parents.



You can use the table below to predict how tall children will be when they are adults.

There is one formula for boys and a different one for girls:

Boy's predicted height	Girl's predicted height
$0.4(x + y) + 42$	$0.4(x + y) + 29$
$x$ is the father's height in cm. $y$ is the mother's height in cm.	

- (a) Calculate the predicted height of Alfie when he is an adult.

  cm 1 mark

- (b) When Emma is an adult, she is predicted to be taller than her mother.

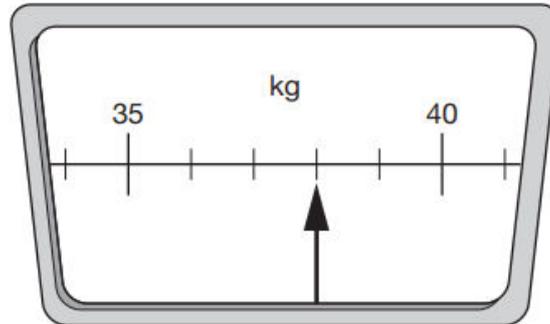
How much taller?

  cm 1 mark

1.

1

This scale shows how much Chen weighs.



How much does Chen weigh?



1  
1 mark

2.

12

Circle the approximate measurement.

The length of a banana is about ...



*2 cm*

*20 cm*

*2 mm*

*2 m*

*20 m*

The mass of an apple is about ...



*2 g*

*20 kg*

*200 kg*

*200 g*

*2 kg*

A glass of fruit juice is about ...



*2 ml*

*2 l*

*20 ml*

*200 ml*

*20 l*

12i

\_\_\_\_\_

12ii

\_\_\_\_\_

2 marks

1.

19

This is Kirsty's recipe for breakfast cereal.

- 50 grams of oats
- 30 grams of raisins
- 40 grams of nuts



If she uses 125 grams of oats, how many grams of raisins does she need?

Show  
your  
working

g

19i

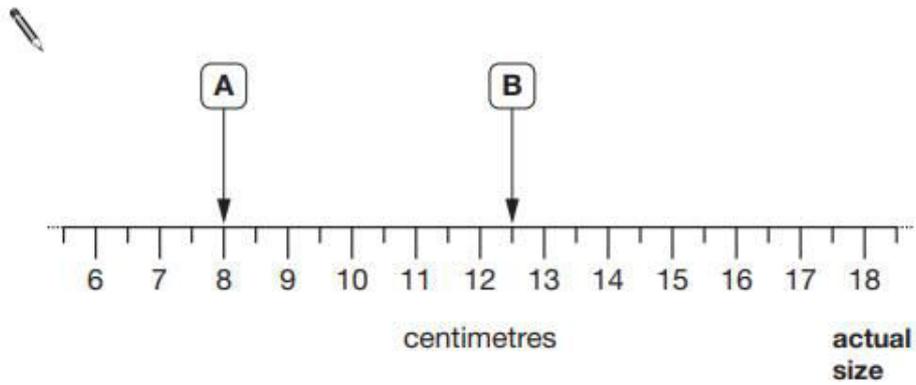
19ii

2 marks

1.

8

Here is part of a centimetre scale, with two points marked.



What is the distance between point **A** and point **B**?

  cm

Ba  
1 mark

Point **C** is **twice as far** from point **A** as it is from point **B**.

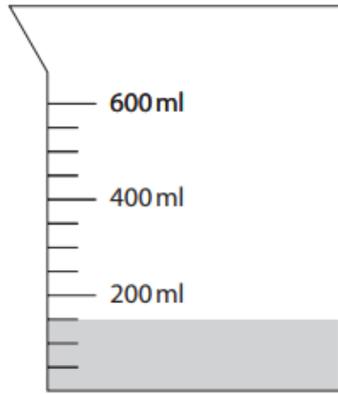
On the scale above, mark one place where point **C** could be.

Bb  
1 mark

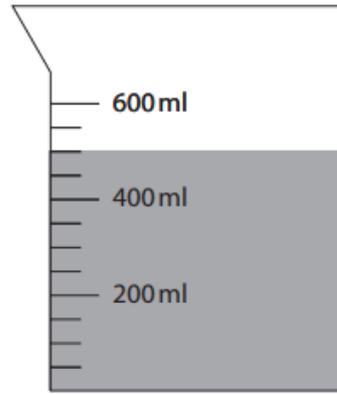
2.

15

One jug contains water and the other jug contains oil.



Water



Oil

How much **more** oil is there than water?

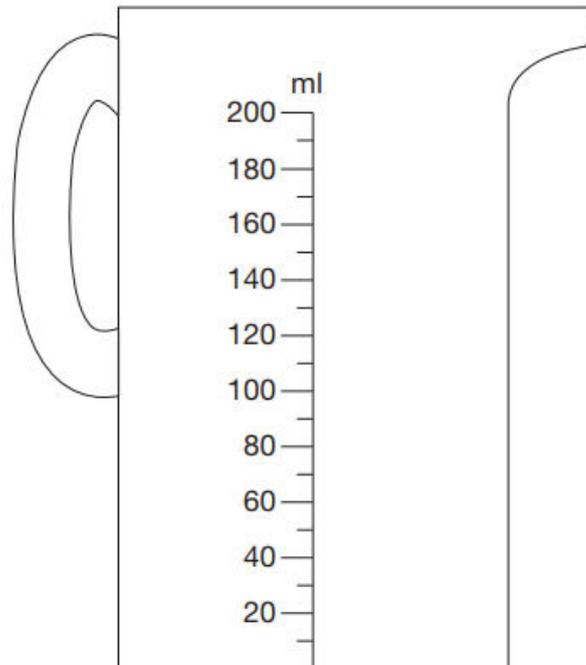


1.

**5**

Chen pours 165 millilitres of milk into a measuring jug.

Draw an arrow on the jug to show the level of the milk.



1 mark





Key Stage 2: 2017 Paper 2 Reasoning

1.

**11**

Here is a rule for the time it takes to cook a chicken.

**Cooking time = 20 minutes plus an extra  
40 minutes for each kilogram**

How many minutes will it take to cook a 3 kg chicken?

**minutes**

1 mark

What is the mass of a chicken that takes 100 minutes to cook?

**kg**

1 mark

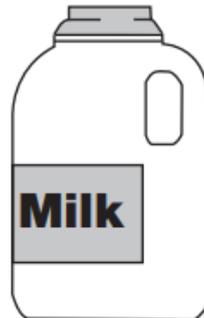
Key Stage 2: 2017 Paper 3 Reasoning

1.

10

A bottle contains 568 millilitres of milk.

Jack pours out **half a litre**.



How much milk is left?

1 mark

Key Stage 2: 2018 Paper 2 Reasoning

1.

3

On the line below, mark the point that is 6.7 centimetres from A.



1 mark

2.

17

There are 28 pupils in a class.

The teacher has 8 litres of orange juice.

She pours 225 millilitres of orange juice for every pupil.



How much orange juice is left over?

Show  
your  
method

A large grid for showing the method to solve the problem. The grid is 20 squares wide and 20 squares high. A small rectangular box is drawn in the bottom right corner of the grid, spanning 4 squares horizontally and 2 squares vertically.

3 marks

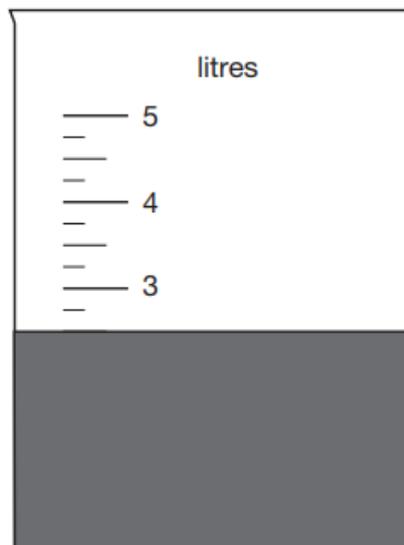


Key Stage 2: 2019 Paper 2 Reasoning

1.

7

Jack pours some dark paint into a container.



In litres, how much paint is in the container?

litres

1 mark