Ma

KEY STAGE

Mathematics tests

3-5

Paper 2

Calculator **not** allowed

First name

Middle name

Last name

Date of birth Day Month Year

School name

DfE number

For marker's use only

Page	Marks
5	
7	
9	
11	
13	
15	
17	
19	
21	
23	
Total marks	

5000

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Please do not write on this page.

Instructions

You may not use a calculator to answer any questions in this test.

Work as quickly and as carefully as you can.

You have **45 minutes** for this test.

If you cannot do one of the questions, go on to the next one.

You can come back to it later, if you have time.

If you finish before the end, go back and check your work.

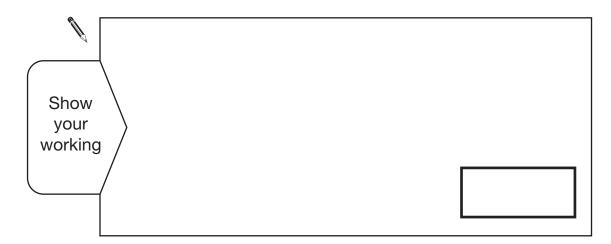
Follow the instructions for each question carefully.



This shows where you need to put the answer.

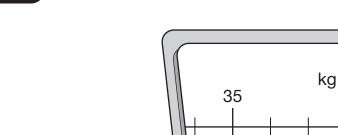
If you need to do working out, you can use any space on a page.

Some questions have an answer box like this:



For these questions you may get a mark for showing your working.

This scale shows how much Chen weighs.



How much does Chen weigh?



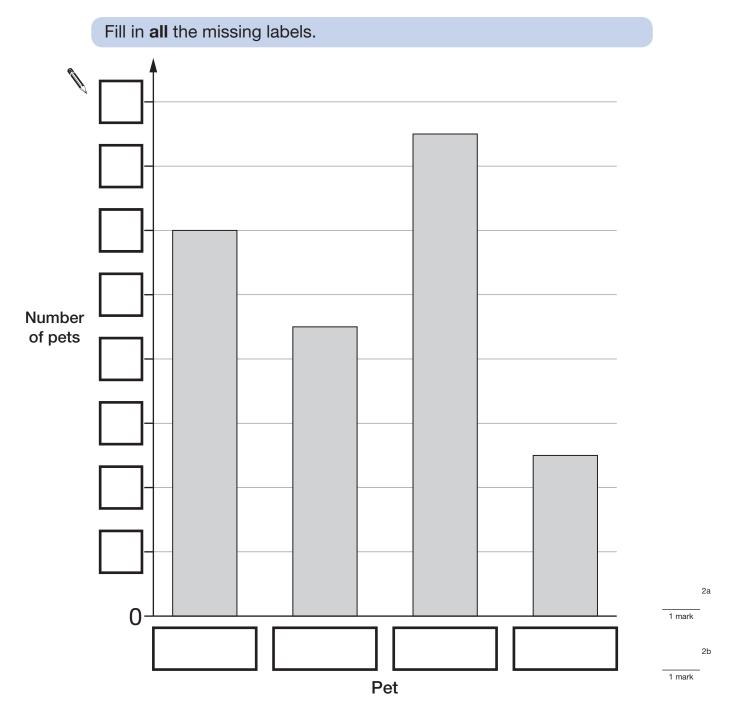
40

Alfie collected information about the pets owned by children in his class.

Here are his results.

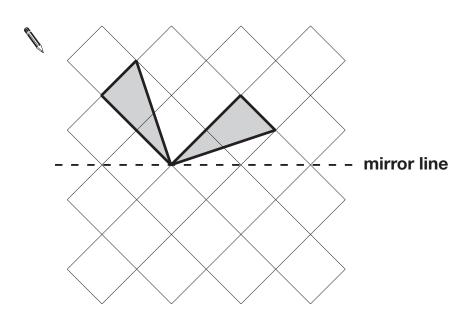
Pet	Number of pets
dog	9
cat	12
rabbit	5
fish	15

This bar chart shows the information from the table.



Total out of 3 _____

Use a ruler.



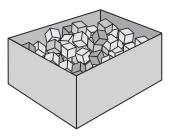
Circle **three** numbers that add to make 750

450 350 250 150 50 _____

1 mark

Seb has a box of 120 cubes.

He uses some of the cubes to build a tower.



77 cubes are left over.

How many cubes has he used?

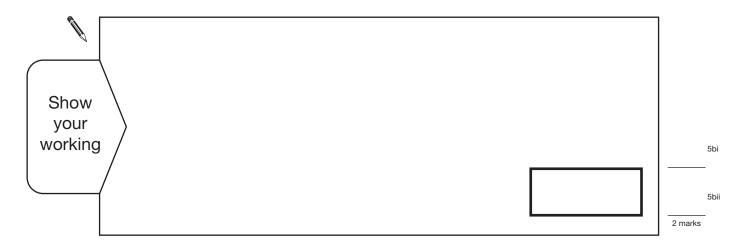


Seb has 77 cubes left over.

He builds two more towers.

One tower uses 18 cubes and the other uses 35 cubes.

How many of his 77 cubes has he got left now?



Total out of 5 _____

Write the missing signs in the circles.





6a 1 mark

$$8 \bigcirc 7 \bigcirc 6 \bigcirc 5 = 4$$

1 mark

6b

Megan has 7 coins that make one pound.

The coins are of **only two** different kinds.

What are the 7 coins?















The numbers in this sequence increase by 10 each time.

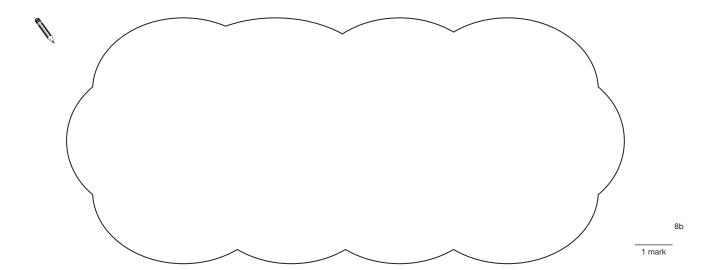
3 13 23 ...

The sequence continues in the same way.

Write two numbers from the sequence that add to make a total of 96

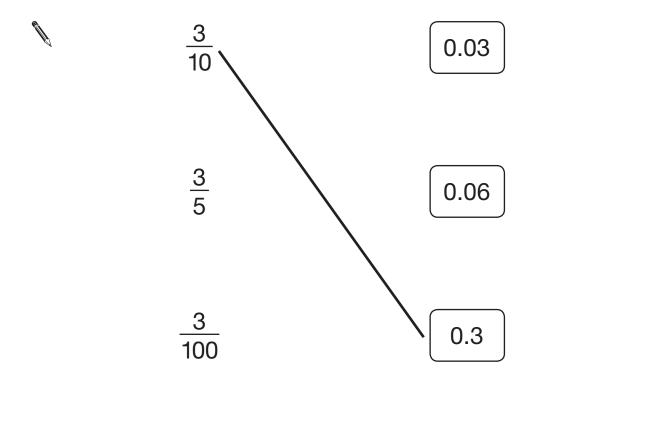


Explain why it is **not** possible to find **three** numbers from the sequence that add to make a total of **96**

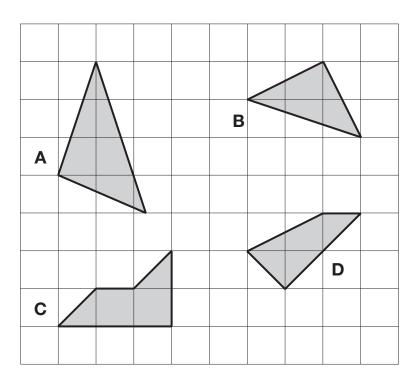


Total out of 5 _____

The first one has been done for you.



0.6



Write the letters of **all** the shapes that have **exactly two** sides which are equal in length.

10ii 2 marks

10i

Total out of 3 _____

11



Circle the approximate measurement. 12

The length of a banana is about...



2 cm

20 cm

2 mm 2 m 20 m

The mass of an apple is about...



2g

20 kg 200 kg 200 g

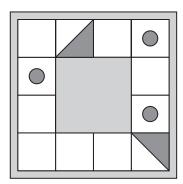
2kg

A glass of fruit juice is about...



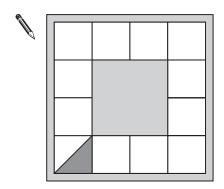
2ml 2l 20ml 200ml 201

12i



The tile is turned clockwise to the position below.

Shade the missing shapes in their new positions.



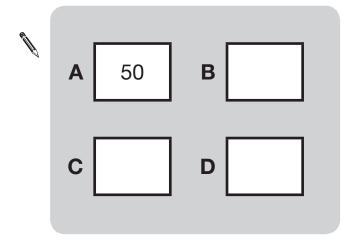
14

The number in **A** is **twice** the number in **D**.

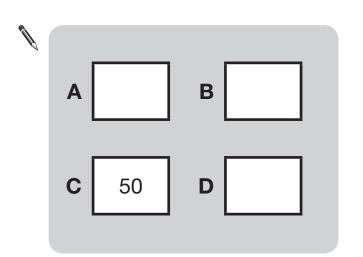
The number in **B** is **5 less** than the number in **C**.

The number in **D** is **10 more** than the number in **B**.

Write the missing numbers in this diagram.



Now use the same rule for this diagram.



14b

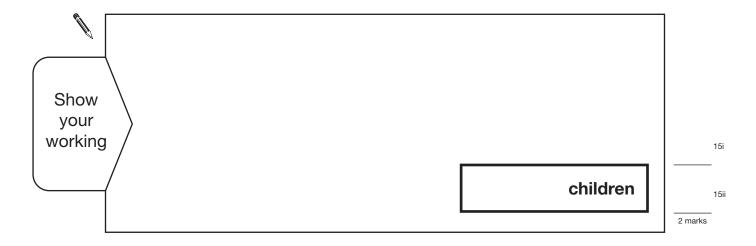
14a

200 children went on holiday.

10% of the children went to Wales.

25% of the children went to Scotland.

How many **more** children went to Scotland than went to Wales?



Total out of 4 _____

Amy did a survey of what time people get up on a Sunday morning. This table shows her results for 150 people.

Time	number of people
before 7:00 am	13
7:00 am to 7:59 am	28
8:00 am to 8:59 am	59
9:00am to 9:59am	36
10am and after	14

Look at the table.

How many people get up at 8am or later?

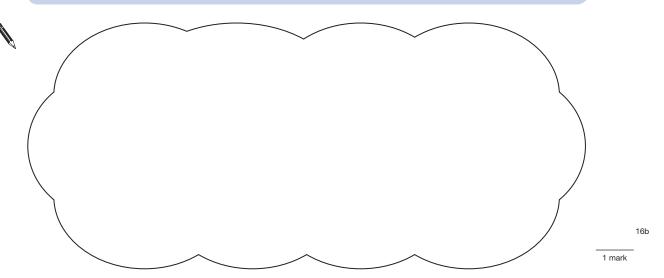


Amy says,

'Two-thirds of the 150 people in the survey get up before 9am.'

Amy is correct.

Explain how you know.

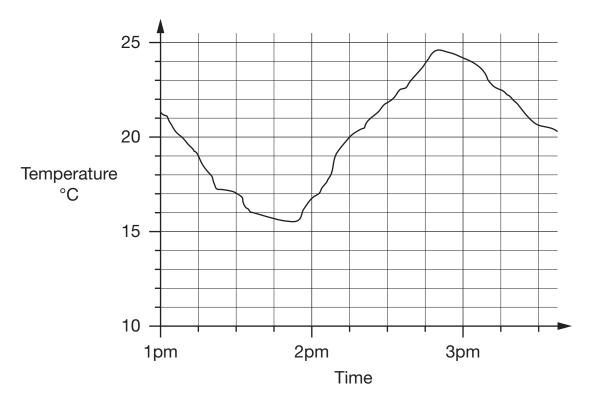


$$50 - \boxed{} = \boxed{} + 10$$

Total out of 3 _____

18

This graph shows how the temperature changed in Liam's room one afternoon.



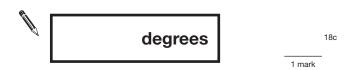
Estimate the temperature at 3:15 pm.



Estimate the time when the temperature was highest.

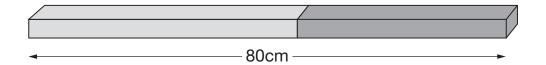


How much did the temperature change from 2pm to 2:30pm? Give your answer to the **nearest degree**.



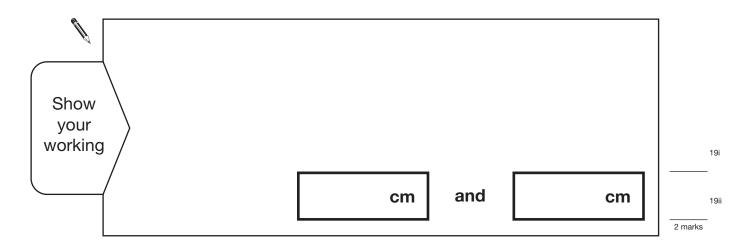
He puts them end to end.

Not actual size

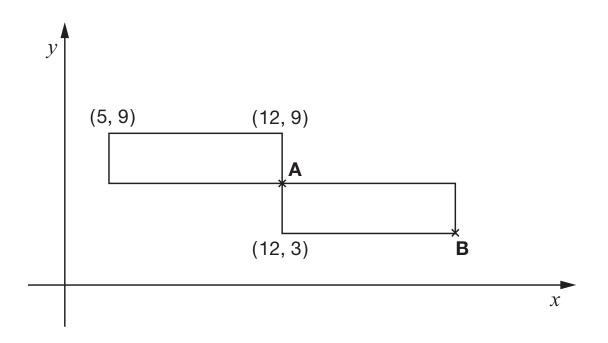


One stick is **10cm longer** than the other stick.

How long are the two sticks?



Total out of 5 _____



Write the **coordinates** of point **A** and point **B**.

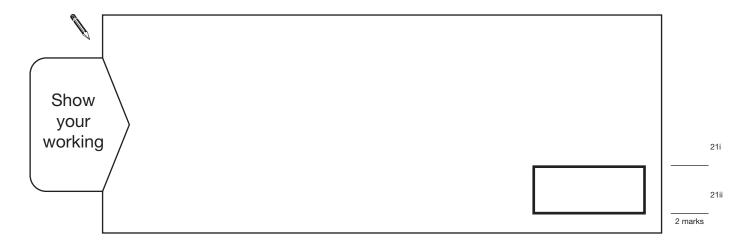
Amy thought of a number.

She added 0.5 to her number and then doubled the result.

Then she subtracted 0.5 and doubled the new result.

Her final answer was 61

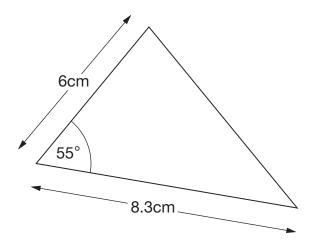
What number did Amy start with?



Total out of 4 _____

Here is a sketch of a triangle.

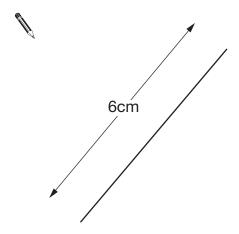
It is not drawn to scale.



Draw the full-size triangle accurately below.

Use a protractor (angle measurer) and a ruler.

One line has been drawn for you.



22i ------22ii

2 marks

Each number is less than 10

Total out of 3 _____



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