Ma

KEY STAGE

LEVELS

Mathematics tests

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	

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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.

Ŋ

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

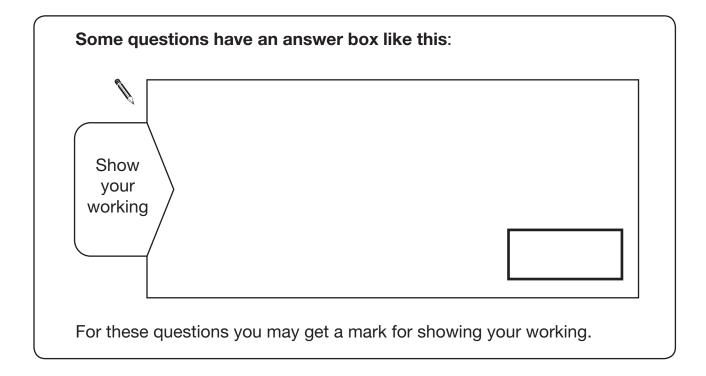
You can come back to it later, if you have time.

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

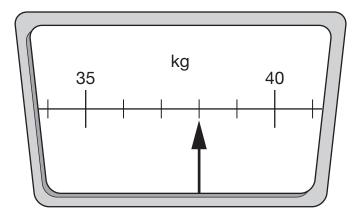
Follow the instructions for each question carefully.

This shows where you need to put the answer.

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



This scale shows how much Chen weighs.



How much does Chen weigh?

kg

1 mark

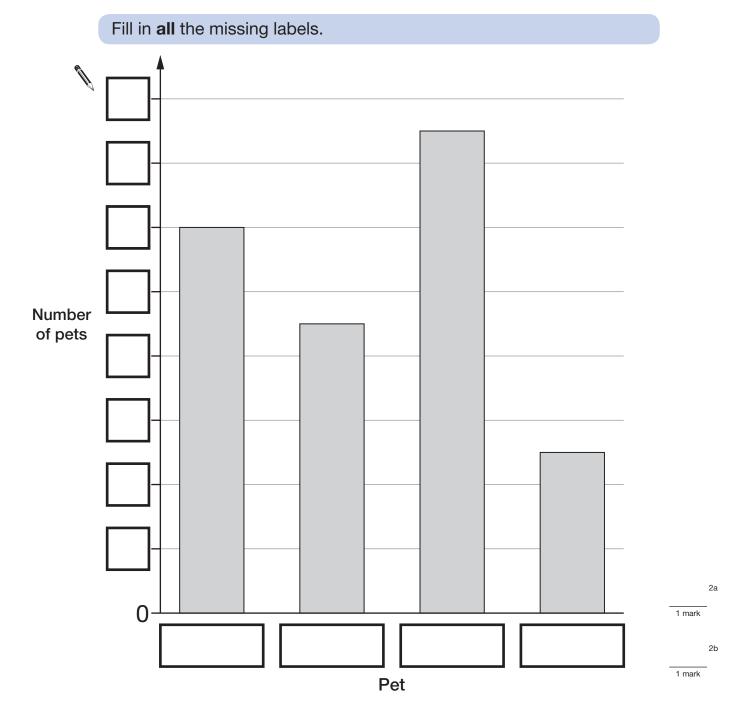
1

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.



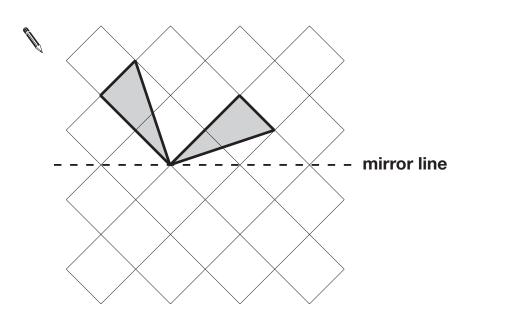
Total out of 3 _____

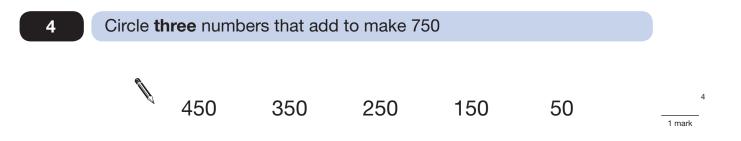
3

1 mark

Complete this shape so that it is symmetrical about the mirror line.

Use a ruler.





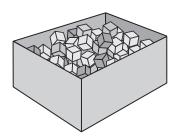
Seb has a box of **120** cubes.

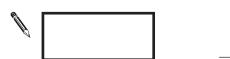
He uses some of the cubes to build a tower.

77 cubes are left over.

5

How many cubes has he used?





1 mark

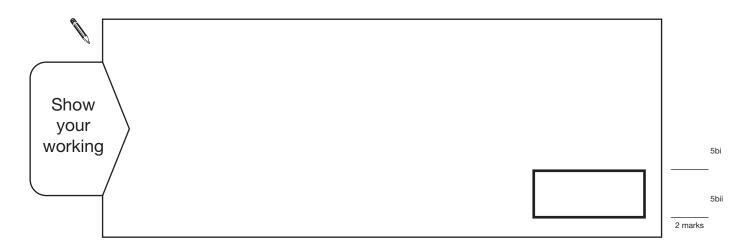
5a

Seb has 77 cubes left over.

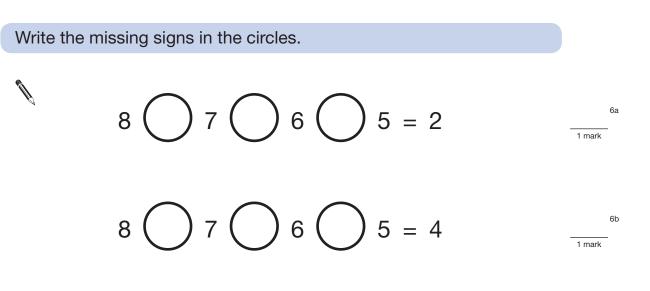
He builds two more towers.

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

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

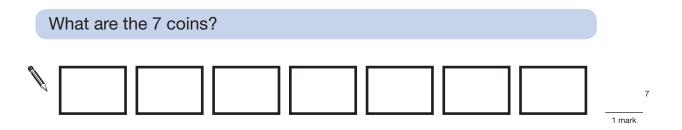


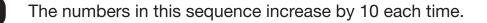
In these calculations, each missing sign is a + or a -



7 Megan has 7 coins that make one pound.

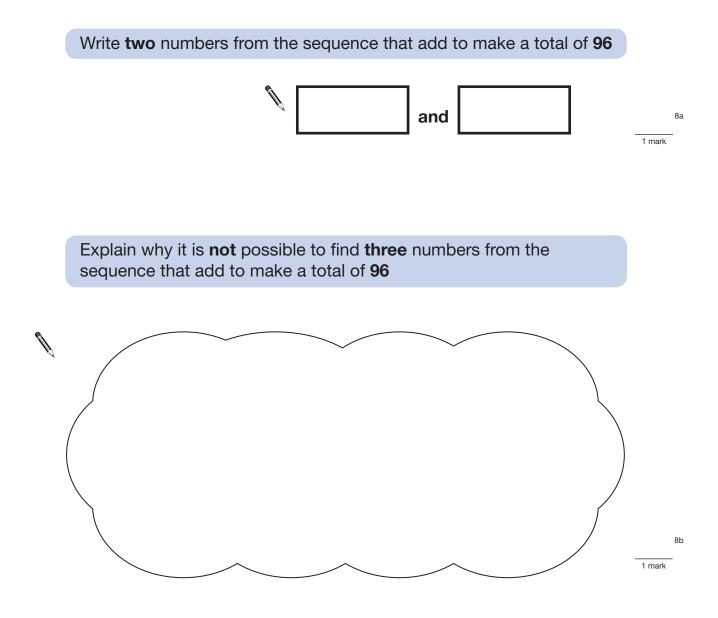
The coins are of **only two** different kinds.







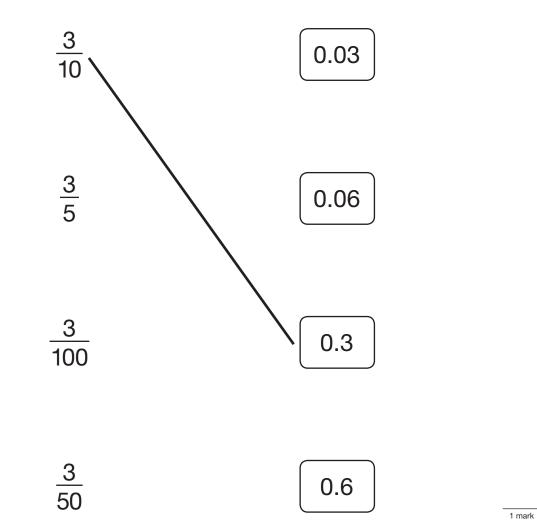
The sequence continues in the same way.



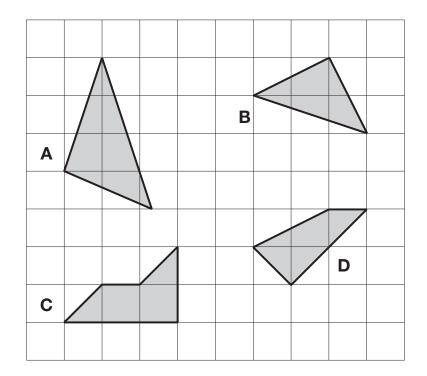
9

Join each fraction to the correct decimal card.

The first one has been done for you.



Here are four shapes on a square grid.



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

10i

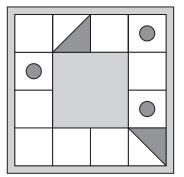
10ii

2 marks



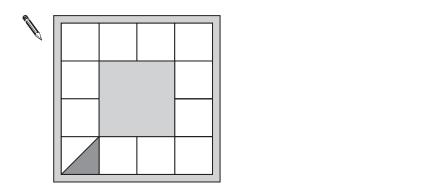
Circ	le the appr	oximate meas	urement.		
The	length of a	a banana is ab	out		
R					
N	2	20	2	2	20
	2 cm	20 cm	2 mm	2 m	20 m
The	mass of a	n apple is abo	ut		
Ŋ					
	2 g	20 kg	200 kg	200 g	2 kg
	0	0	0	0	0
A gl	ass of fruit	juice is about			
0					
Ø					
	2 ml	2 l	20 ml	200 ml	201

Here is a design of dots and triangles on a square tile.



The tile is turned clockwise to the position below.

Shade the missing shapes in their new positions.



13i

13ii

14a

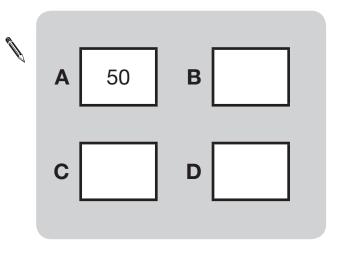
1 mark

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

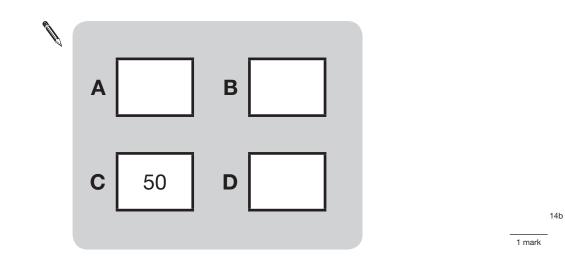
The number in **B** is **5 less** than the number in **C**.

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.

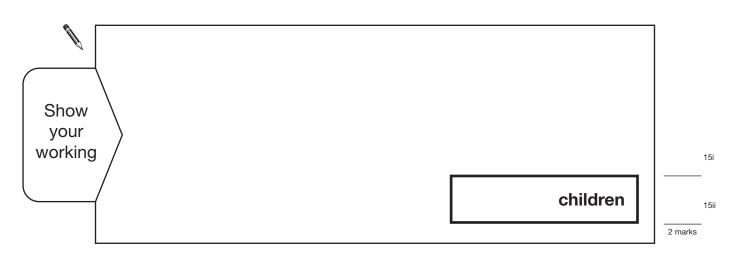


200 children went on holiday.

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 _____

15

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
7:00am to 7:59am	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?

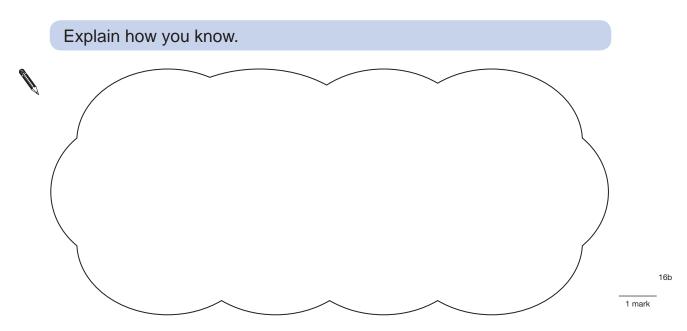
16a

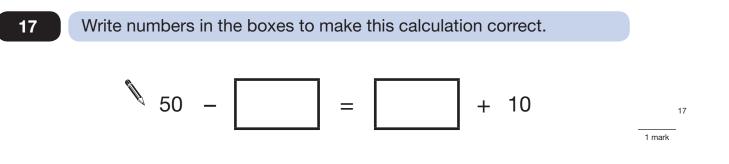
1 mark

Amy says,

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

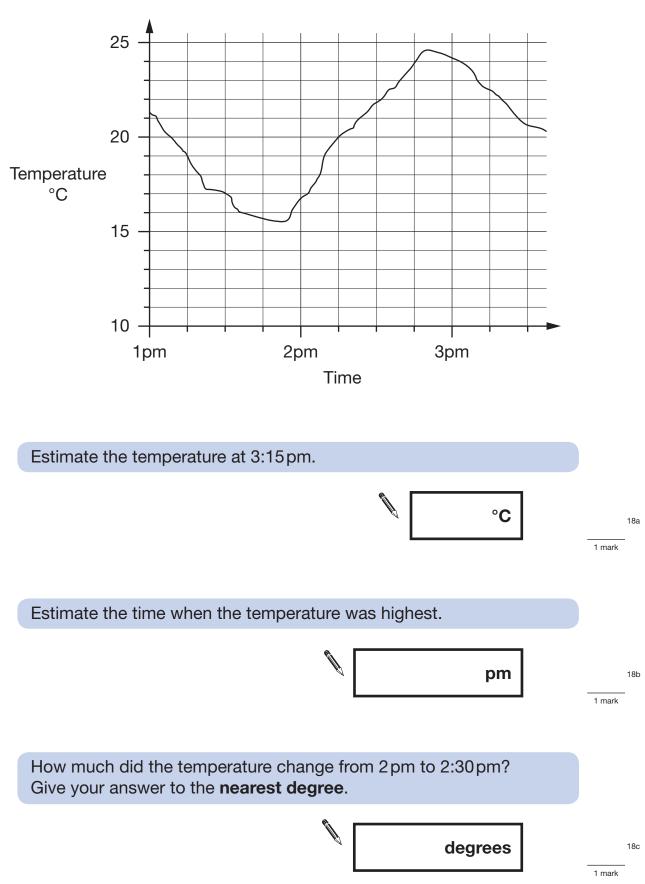
Amy is correct.

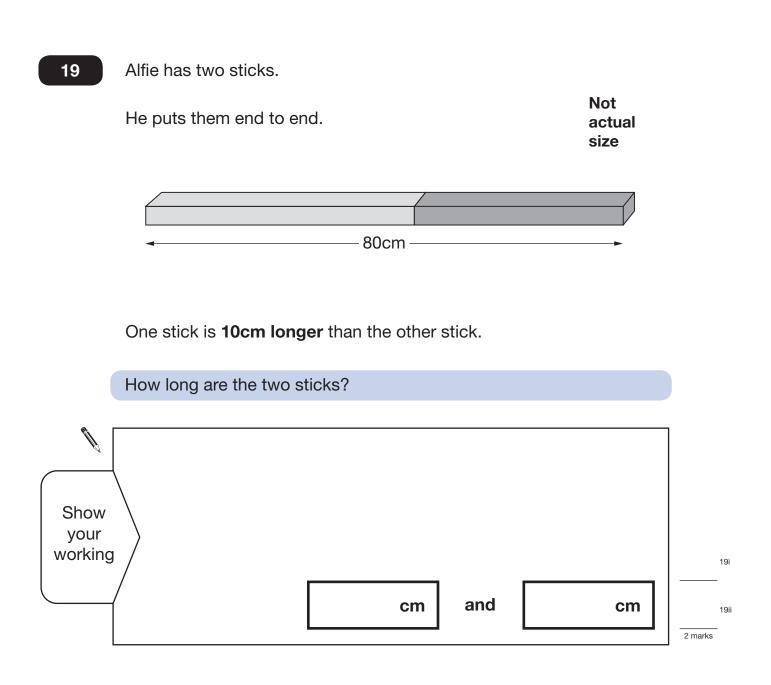




Total out of 3 _____

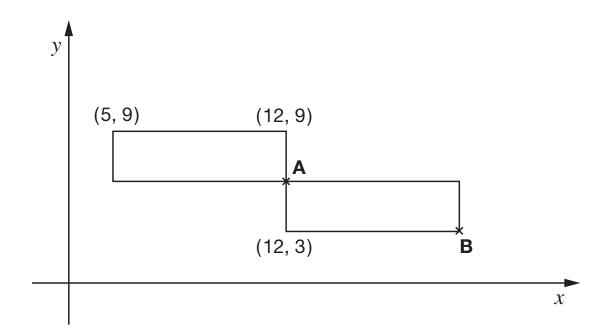
This graph shows how the temperature changed in Liam's room one afternoon.



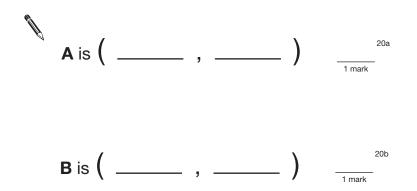


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Write the **coordinates** of point **A** and point **B**.



Amy thought of a number.

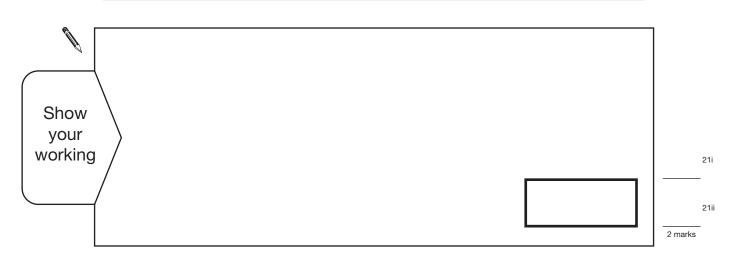
21

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

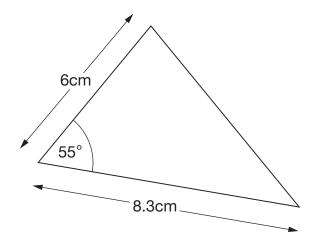
What number did Amy start with?



Total out of 4 _____

Here is a sketch of a triangle.

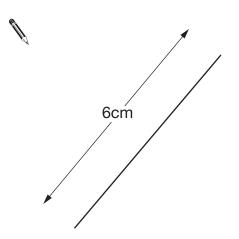
It is not drawn to scale.



Draw the full-size triangle accurately below.

Use a protractor (angle measurer) and a ruler.

One line has been drawn for you.



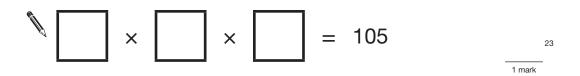
22i ______ 22ii

2 marks



Fill in the three missing whole numbers in this calculation.

Each number is less than 10



Total out of 3 _____

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