Ma

KEY STAGE

Mathematics tests

3-5

Paper 1

Calculator **not** allowed

First name				
Middle name				
Last name				
Date of birth	Day	Month	Year	
School name				
DfE number				

For marker's use only

Z	
5	

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.

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.

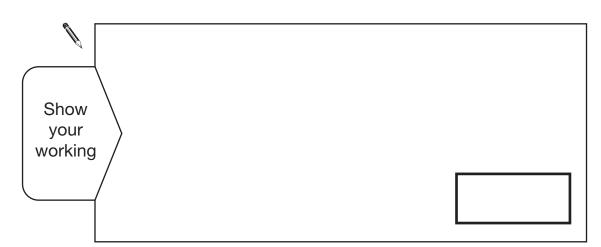
Follow the instructions for each question carefully.



This shows where you need to put the answer.

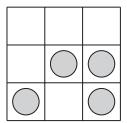
If you need to do working out, you can use any space on a page.

Some questions have an answer box like this:

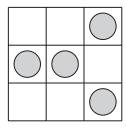


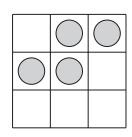
For these questions you may get a mark for showing your working.

This grid has a pattern of four circles on it.

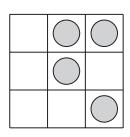


Write the letter of the grid below that has the same pattern as the grid above.

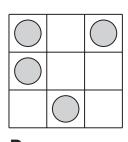




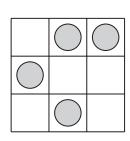
В



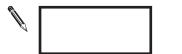
C



D



Ε



1 mark

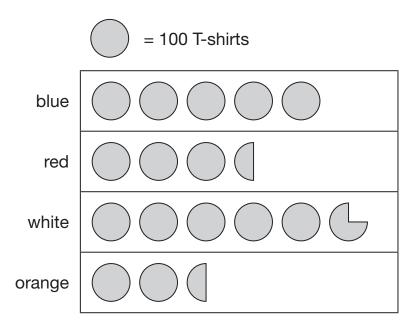
The numbers in this sequence increase by the same amount each time.

Write the two missing numbers.

	610	650	690	1 mark

A shop sells T-shirts.

This chart shows how many T-shirts were sold in a month.



Write the colours of the T-shirts that sold more than 400 in the month.

3a 1 mark

How many red T-shirts and orange T-shirts were sold altogether?



How many more white than blue T-shirts were sold?



Seb has to see the doctor at 10:05 am.

He gets to the doctor's surgery at 9:52 am.

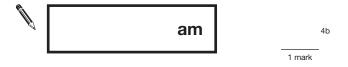
How many minutes early is he?



He leaves the doctor's surgery at 10:25 am.

He gets to school 45 minutes later.

What time does he arrive at school?

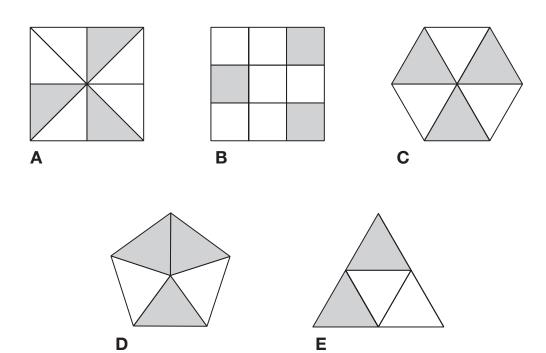


×	8	5	
4		20	28
5	40		35
3	24	15	21

5i ------5ii

2 marks

Each of these diagrams is divided into equal parts. Some of the parts are shaded.



Write the letters of all the diagrams that have exactly $\frac{1}{2}$ shaded.



Which of the diagrams has exactly $\frac{1}{3}$ shaded?



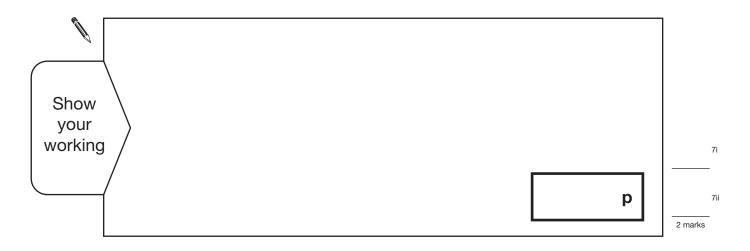
Total out of 4 _____

Liam buys **two** apples.

He pays with a £1 coin and gets 64p change.

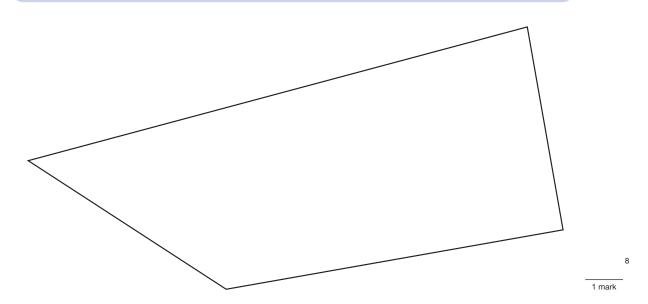


How much does **one** apple cost?



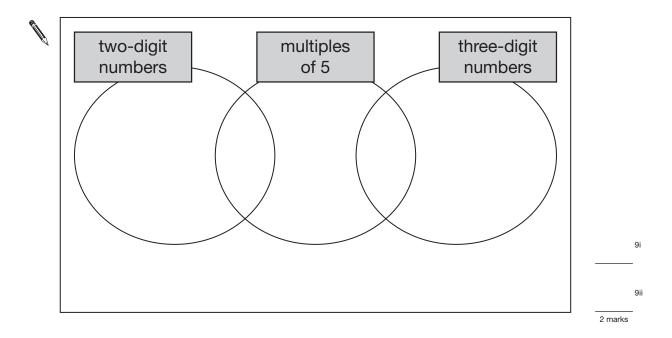
In this shape, one of the angles is **obtuse**.

Tick (✓) the obtuse angle.



Write **each** number in its correct place on the diagram.

2 20 201 2000



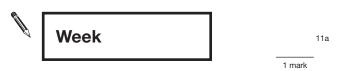


The table shows how much money he saved each week.

Week number Amount saved

1	2	3	4	5	6	7	8	9	10
£5	£4	£2	£4	£3	£4	£6	£4	£3	£5

In which week did Seb reach **half** the amount he needed for the skateboard?



If Seb had saved an extra £1 each week, in which week would he have reached his target of £40?

Week		11b
	1 ma	ark

Total out of 4 _____

This weather chart shows the highest and lowest temperatures in a town on five days in March.

	Temperature °C		
	highest lowest		
Monday	+7	0	
Tuesday	+7	-2	
Wednesday	+8	-2	
Thursday	+9	+1	
Friday	+4	-5	

Which day has the greatest difference between the highest and the lowest temperatures?



What is the difference between the lowest temperatures on Thursday and Friday?

degrees 12b

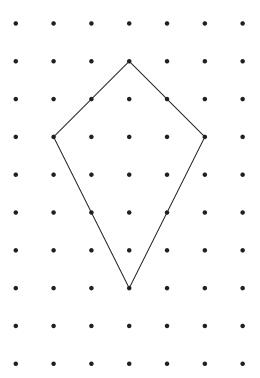
Chen and Megan each buy a sandwich.

Chen gets 5p change from £2

Megan gets £2.25 change from £5

How much **more** does Megan pay than Chen?

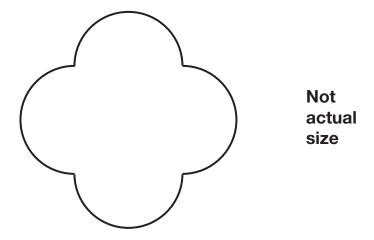




For each statement, put a tick (\checkmark) if it is true. Put a cross (x) if it is not true.

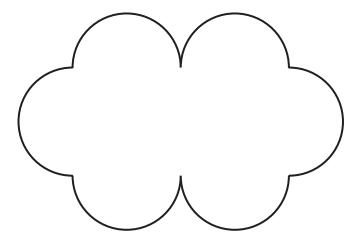
The shape is a quadrilateral.	
The shape has 2 lines of symmetry.	
The shape is a parallelogram.	14i
The shape has one right angle.	14i

This shape is made out of four identical curves.

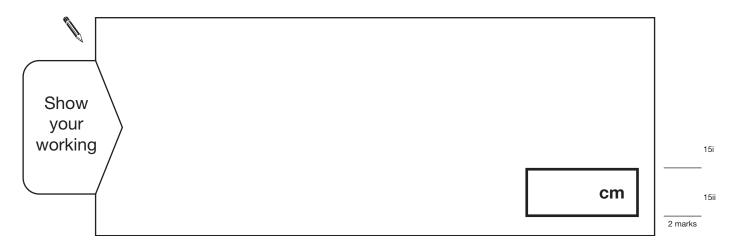


The perimeter of the shape is 28 centimetres.

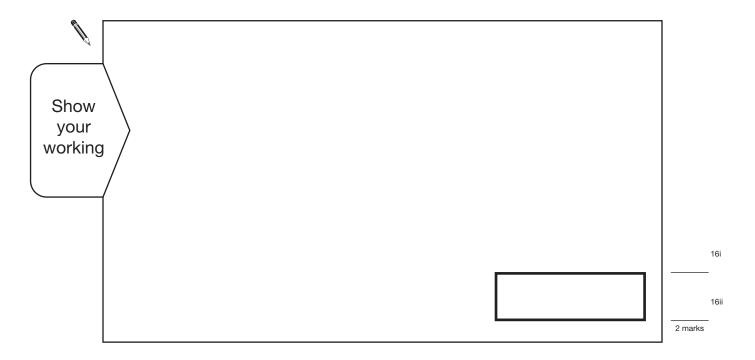
A new shape is made out of curves of the same size.



What is the perimeter of the new shape?



Total out of 4 _____



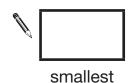
8.12

1.8

8.118

8.2

1.28





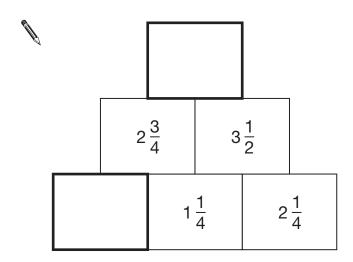
1 mark

17

18

In this diagram, the number in each box is the **sum** of the two numbers below it.

Write the missing numbers.



1 mark

18b

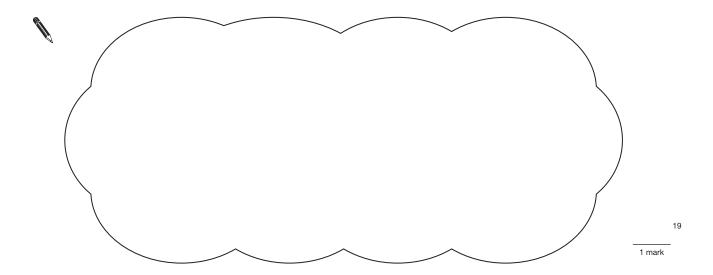
Total out of 5 _____

Liam did a survey of 55 people to see how many were left-handed.

Liam says,

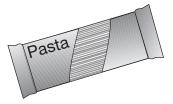
'The results show that exactly 10% of the people in the survey are left-handed.'

Explain why Liam cannot be correct.

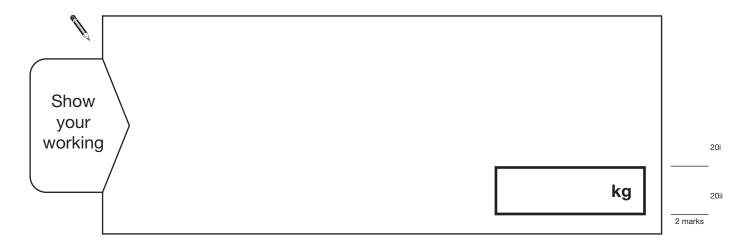


Chen is cooking some pasta.

The recipe says he needs 350 grams of pasta for 4 people.



How many kilograms of pasta does he need for 12 people?



21	Chen is thinking of three numbers.	
	He says,	
	'The range is 5 The mode is 2'	
	What are his three numbers?	
		21 1 mark
22	 n stands for a whole number. 2n is greater than 30 5n is less than 100 	
	Write all the numbers that n stands for.	22 i
		22ii 2 marks

[END OF TEST]

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