Ma

KEY STAGE

2

3-5

Mathematics test

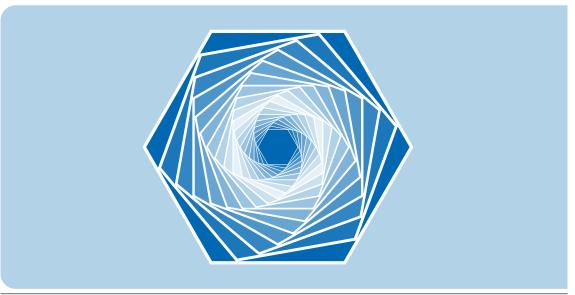
Test B

Calculator allowed

First name

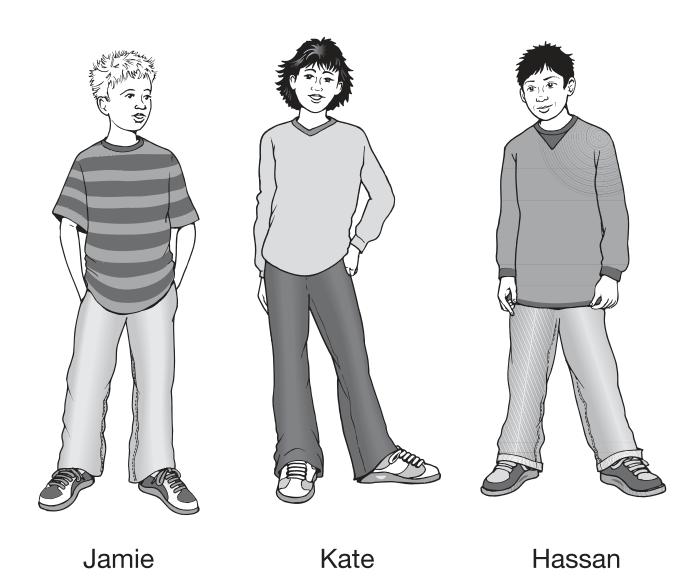
Last name

School



For marker's use only

Page	Marks
5	
7	
9	
11	
13	
15	
17	
19	
21	
23	
TOTAL	
Borderline check	



Instructions

You may 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.

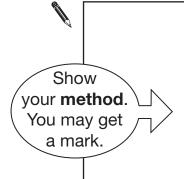
If you finish before the end, go back and check your work.

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 method.

261

246

255

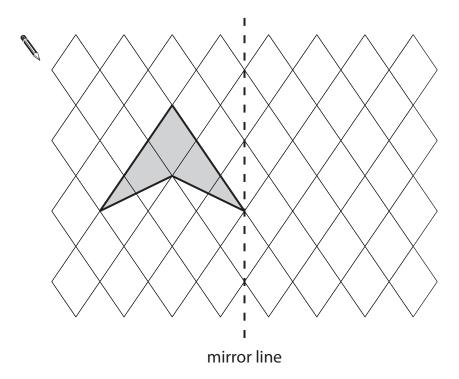
209

275

1 mark

2 Draw the reflection of the shaded shape in the mirror line.

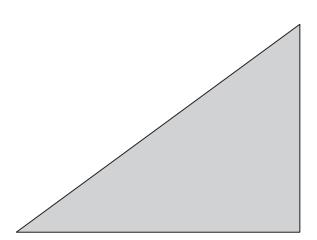
Use a ruler.



Write in the missing digits.

1 mark

4



Measure accurately the length of the **shortest** side of this triangle.

Write your answer in centimetres.



Some children were asked to choose their favourite animal in the zoo.

This table shows the results.

	Girls	Boys
zebra	9	3
lion	4	9
giraffe	7	4
monkey	8	7
elephant	6	5

How many more girls than boys chose giraffes?

		a
	1 mark	

How many more boys chose lions than elephants?



Which animal was chosen by the greatest number of children?

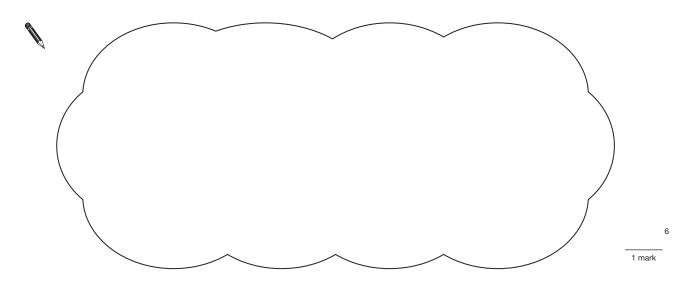
	;
	1 mark



Kate says,

'The time is closer to 11:00am than to 10:00am'.

Explain why Kate is correct.



Circle all the amounts that can be made with three coins.

71p 72p 73p 74p 75p

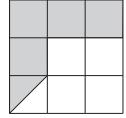
8

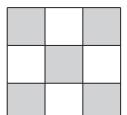
Here are five diagrams.

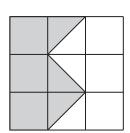
Look at each one.

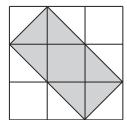
Put a tick (\checkmark) on the diagram if exactly $\frac{1}{2}$ of it is shaded. Put a cross (\mathbf{x}) if it is not.

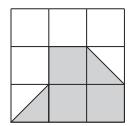




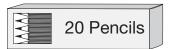








There are 20 pencils in a box.



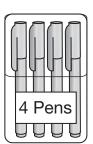
How many boxes of pencils are needed?



9a 1 mark

50 children need **one** pen each.

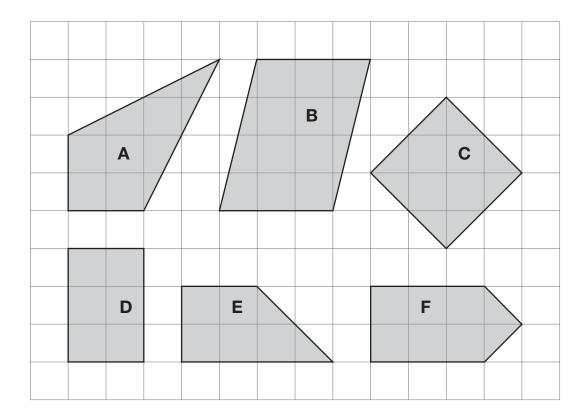
Pens are sold in packs of 4



How many packs of pens need to be bought?



91



Complete the sentences below.

One has been done for you.

-	A	is a kite
		is not a quadrilateral
-		has only 2 right angles
		has 2 acute angles

10i

2 marks

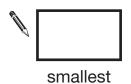
3.01

13.0

0.31

1.30

3.1



1 mark

12

The signs are missing from these number sentences.

Write in the missing signs, $+ - \times$ or \div

The first has been done for you.



6 (x)

5

40



20



8

2



1 mark

12a

12b

21



3

15



8

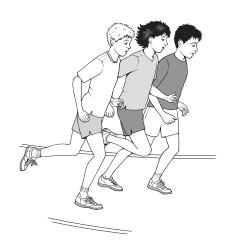
13

Jamie, Kate and Hassan run a 50m race.

Kate's time is 13 seconds.

Jamie finishes 5 seconds before Kate.

Hassan finishes 3 seconds after Jamie.

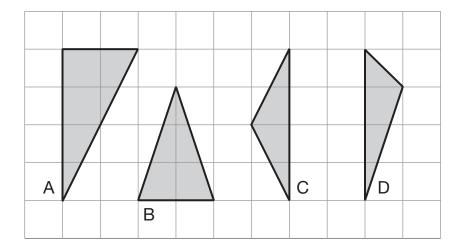


What is **Hassan's time** in seconds?

seconds

1 mark

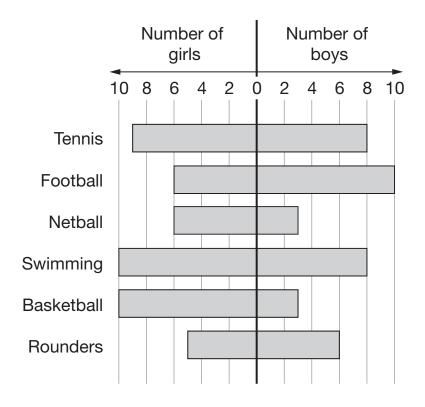
Here are four triangles on a square grid.



Write the letters of the **two isosceles** triangles.

 $_{-}$ and

This chart shows the results.



Which sport was chosen by the most children?

15a

How many more girls than boys chose basketball?

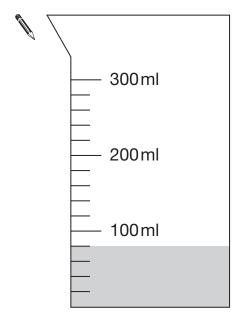
15b

Write all the sports that were chosen by more boys than girls.

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

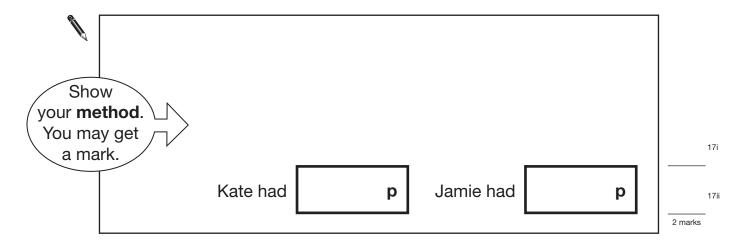


Kate and Jamie each have some money.

Altogether they have £1.50

Kate gives Jamie **10p** so that they both have the same amount.

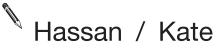
How much money did each have at the start?



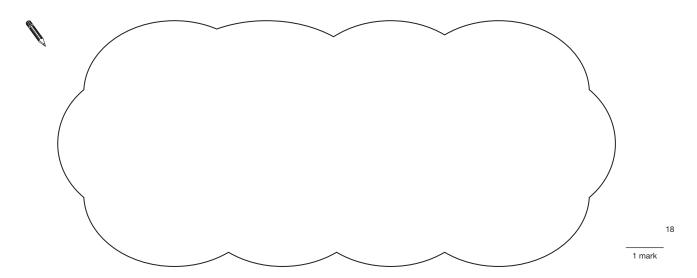
Hassan scores 40 out of 80 in a test.

Kate scores 40% in the same test.

Who has the higher score? Circle **Hassan** or **Kate**.



Explain how you know.

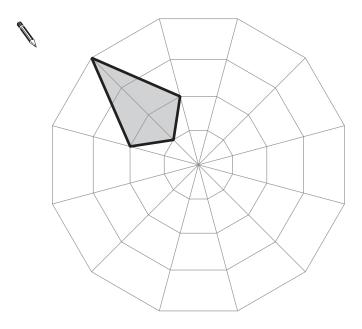


	ı

Here is a shaded shape on a grid.

Jamie rotates the shape 90° **clockwise** about the centre of the grid.

Draw the shaded shape in its new position.



20i

20ii

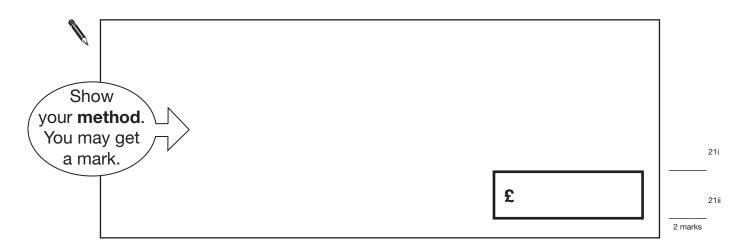


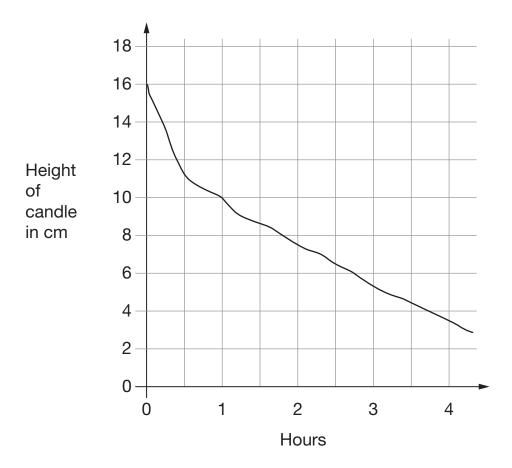
The cost for using a minibus is £1.36 for each kilometre.

8 friends go on a 114 kilometre journey.

They share the cost equally.

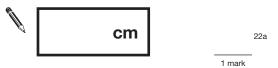
How much does each person pay?



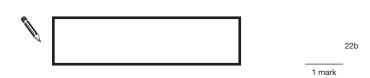


Look at the graph.

What is the height of the candle after 2 hours?

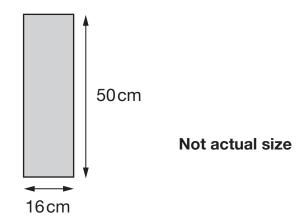


How long does the candle take to burn down from 16cm to 4cm?

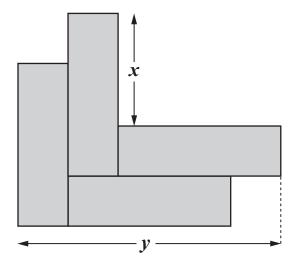


Kate has some rectangles.

They each measure 16 centimetres by 50 centimetres.



She makes this design with four of the rectangles.



Work out the lengths x and y.

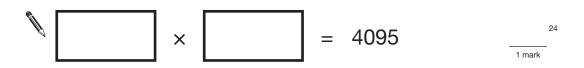
$$X =$$
 cm

23a 1 mark

$$y =$$
 cm

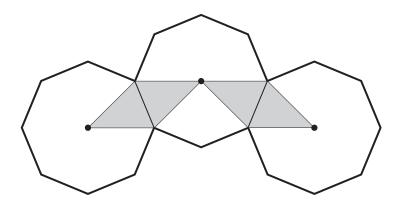
23b 1 mark They multiply to make 4095

Write in the missing numbers.



The diagram shows three regular octagons joined together.

There is a dot at the centre of each octagon.



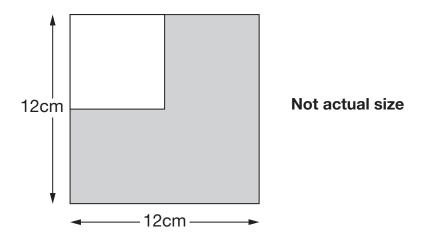
What fraction of the diagram is shaded?



25

A white square is painted in one corner of a grey square.

Each side of the white square is **half** the length of a side of the grey square.



What is the area of the grey section?



End of test

23

Total out of 2 ____