Ma

KEY STAGE 2

LEVELS 3–5

2007

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	

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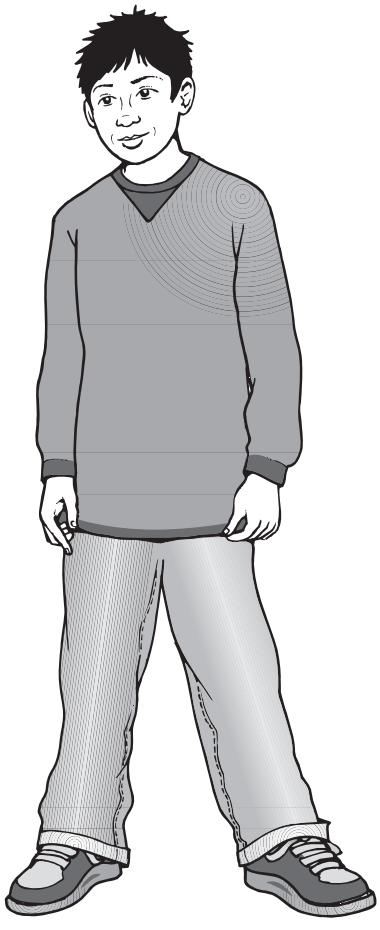
Jamie

Kate



Hassan

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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.

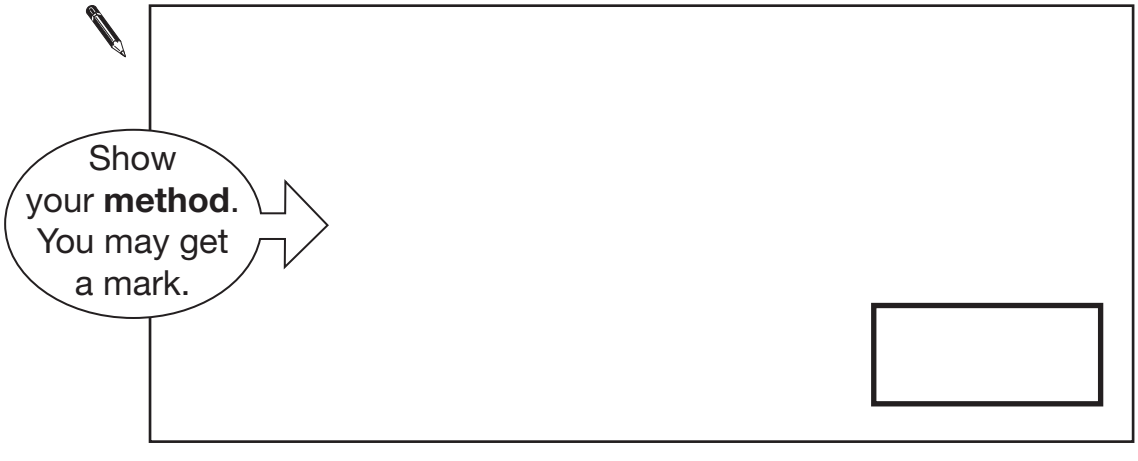
If you finish before the end, **go back and check your work**.

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.

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1 Circle the number that is **closest to 250**

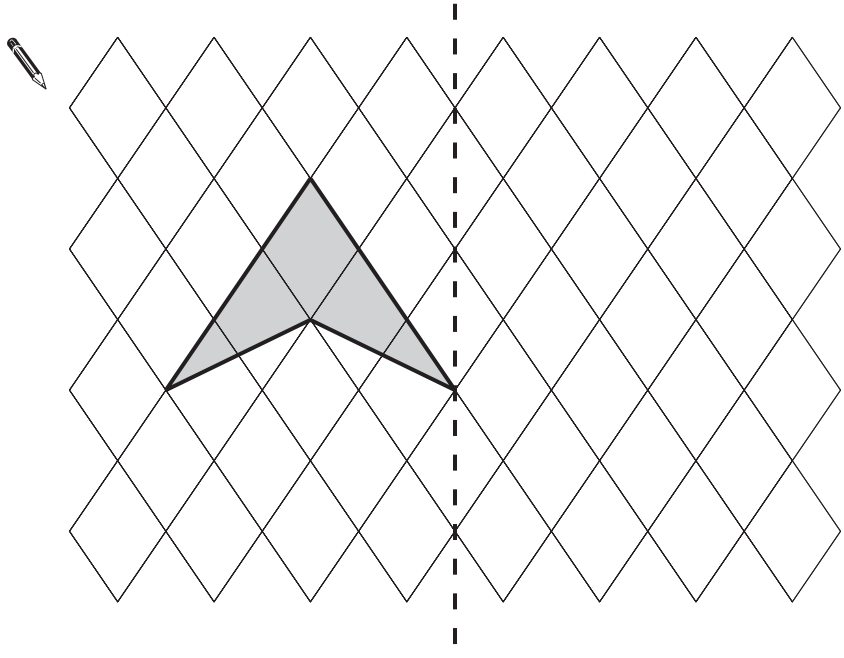
261 246 255 209 275

1

1 mark

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

Use a ruler.



2

1 mark

Sourced from SATs-Papers.co.uk https://www.SATs-Papers.co.uk

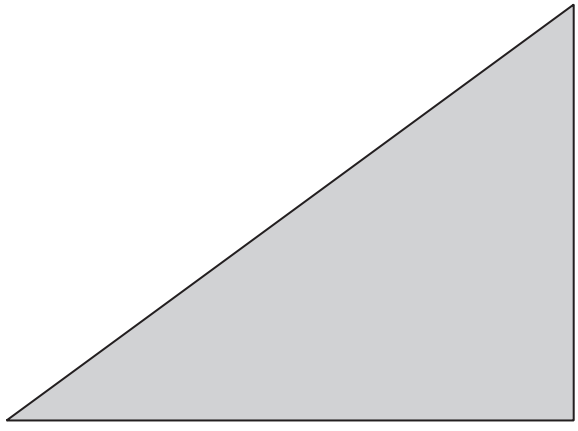
3 The sum of two numbers is 100

Write in the missing digits.

3

1 mark

4



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

Write your answer in centimetres.

4

1 mark

Sourced from SATs-Papers.co.uk https://www.SATs-Papers.co.uk

5 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?

5a

1 mark

How many more boys chose lions than elephants?

5b

1 mark

Which animal was chosen by the greatest number of children?

5c

1 mark

Sourced from SATs-Papers.co.uk https://www.SATs-Papers.co.uk

6 The time is 10:35 am.

Kate says,

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

Explain why Kate is correct.

6

1 mark

Sourced from SATs-Papers.co.uk https://www.SATs-Papers.co.uk

7 Here are some amounts of money.

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

71p 72p 73p 74p 75p

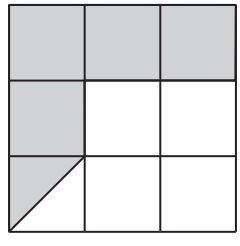
7

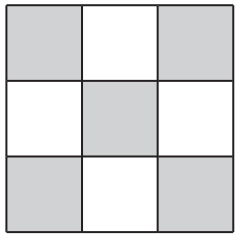
1 mark

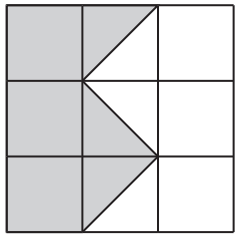
8 Here are five diagrams.

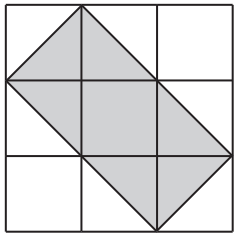
Look at each one.

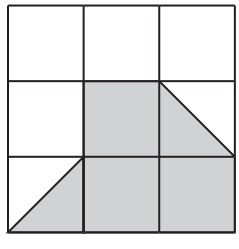
Put a tick (✓) on the diagram if exactly $\frac{1}{2}$ of it is shaded.
Put a cross (✗) if it is not.











8i

8ii

2 marks

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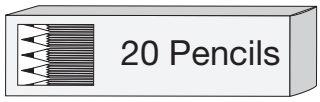
9 50 children need **two** pencils each.

There are 20 pencils in a box.



How many boxes of pencils are needed?

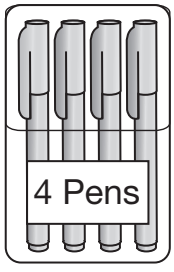
boxes

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?

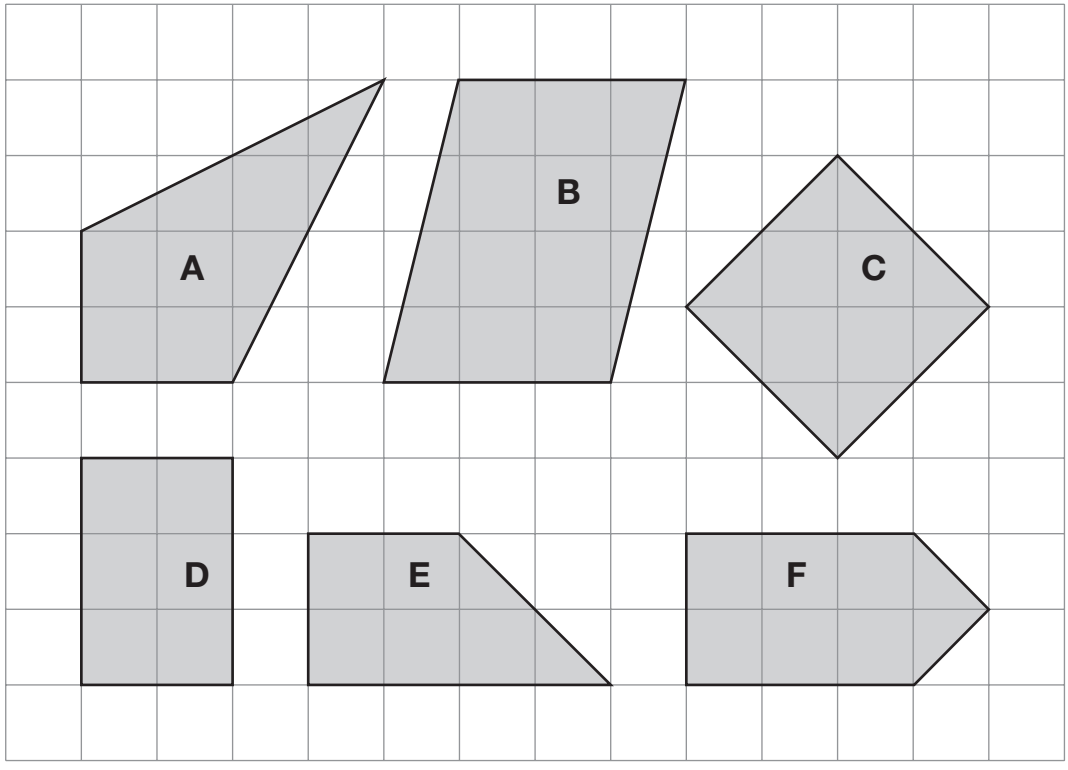
packs

9b

1 mark

Sourced from SATs-Papers.co.uk https://www.SATs-Papers.co.uk

10 Look at these shapes.



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

10ii

2 marks

Sourced from SATs-Papers.co.uk https://www.SATs-Papers.co.uk

11 Write these numbers in order of size, starting with the smallest.

3.01 13.0 0.31 1.30 3.1

smallest

11

1 mark

12 The signs are missing from these number sentences.

Write in the missing signs, + − × or ÷

The first has been done for you.

6 × 5 = 40 − 10

20 ◯ 8 = 4 ◯ 7

12a

1 mark

21 ◯ 3 = 15 ◯ 8

12b

1 mark

Sourced from SATs-Papers.co.uk https://www.SATs-Papers.co.uk

13 Jamie, Kate and Hassan run a 50 m race.

Kate's time is 13 seconds.

Jamie finishes 5 seconds before Kate.

Hassan finishes 3 seconds after Jamie.

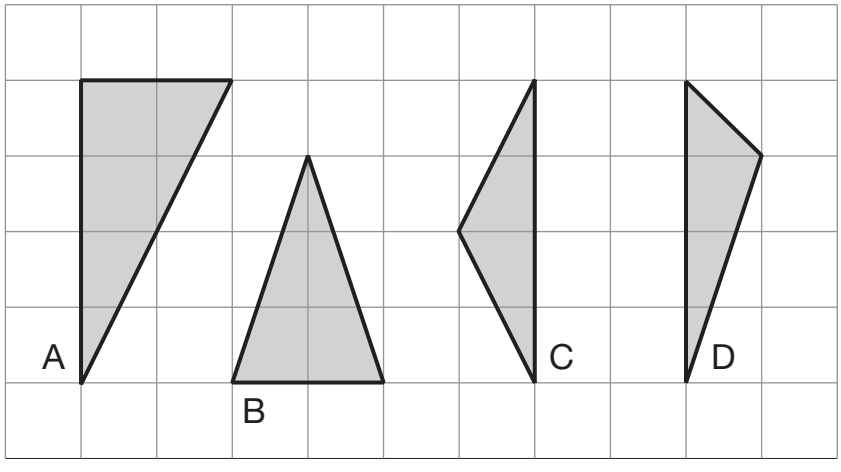
What is **Hassan's time** in seconds?

seconds

13

1 mark

14 Here are four triangles on a square grid.



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

_____ and _____

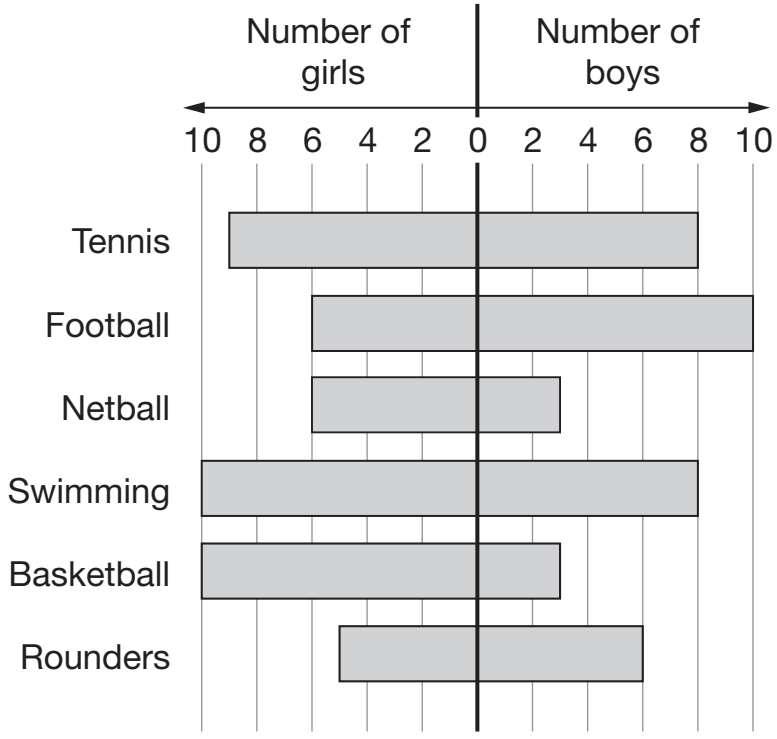
14

1 mark

Sourced from SATs-Papers.co.uk https://www.SATs-Papers.co.uk

15 Some children each chose their favourite sport.

This chart shows the results.



Which sport was chosen by the most children?

15a

1 mark

How many **more** girls than boys chose basketball?

15b

1 mark

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

15c

1 mark

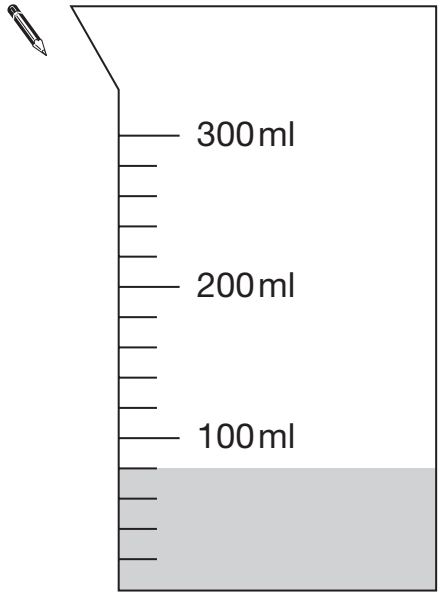
Total out of 5 _____

Sourced from SATs-Papers.co.uk https://www.SATs-Papers.co.uk

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.



16

1 mark

Sourced from SATs-Papers.co.uk https://www.SATs-Papers.co.uk

17

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?

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

Kate had ____ **p** Jamie had ____ **p**

17i

17ii

2 marks

Total out of 3 ____

Sourced from SATs-Papers.co.uk https://www.SATs-Papers.co.uk

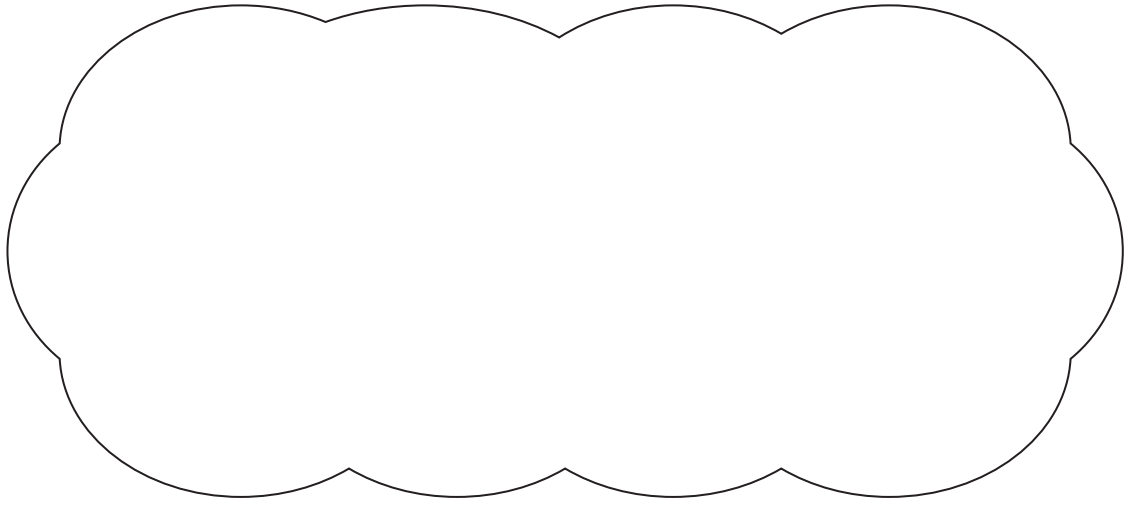
18 Hassan scores 40 out of 80 in a test.

Kate scores 40% in the same test.

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

Hassan / Kate

Explain how you know.



18

1 mark

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19 Calculate $1.2 \times (1.3 + 1.4) \times 1.5$

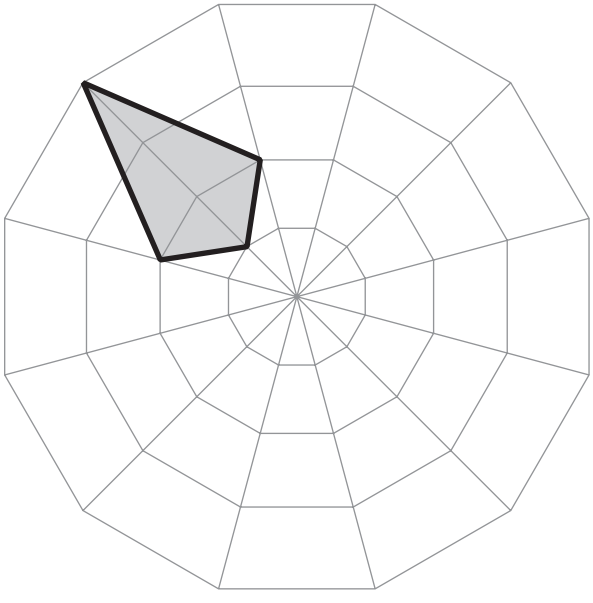
19

1 mark

20 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

2 marks

Total out of 4

Sourced from SATs-Papers.co.uk https://www.SATs-Papers.co.uk

21

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?

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

£

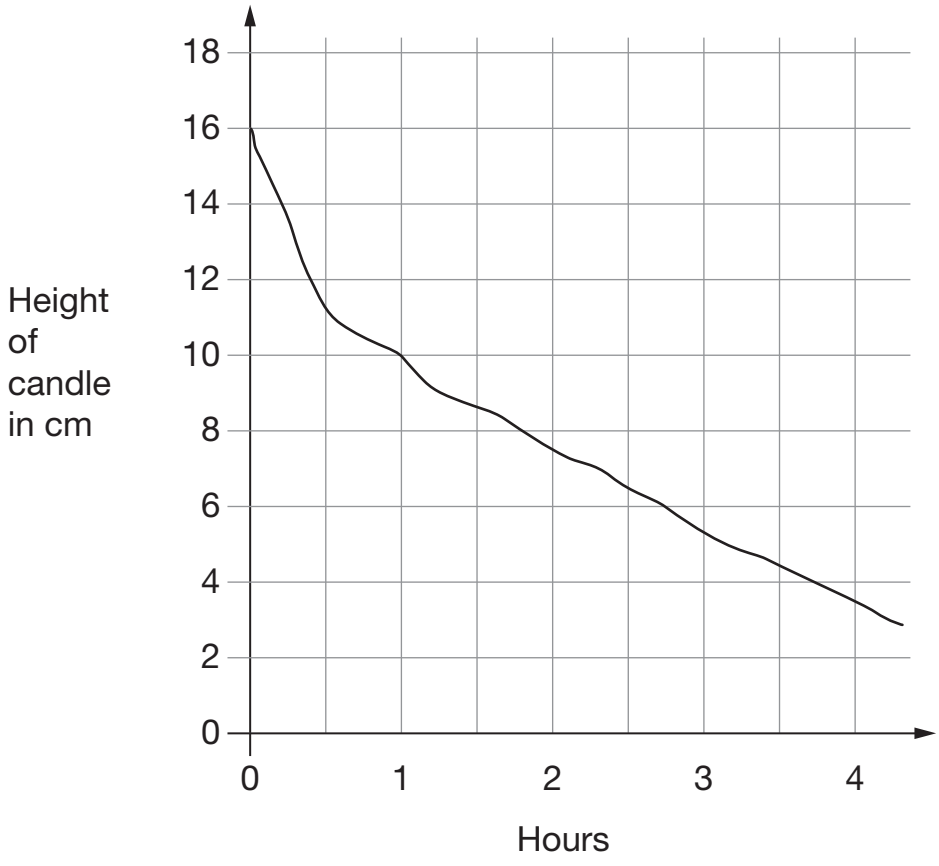
21i

21ii

2 marks

Sourced from SATs-Papers.co.uk https://www.SATs-Papers.co.uk

22 This graph shows the height of a candle as it burns.



Look at the graph.

What is the height of the candle after 2 hours?

cm

22a

1 mark

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

22b

1 mark

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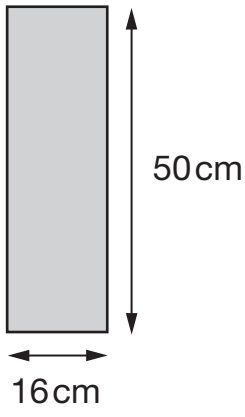
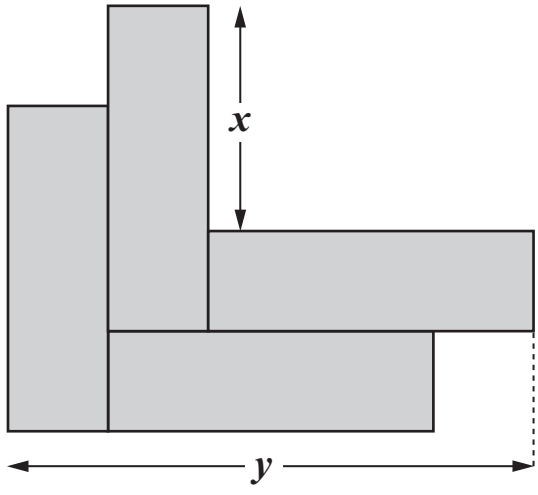
23 Kate has some rectangles.
They each measure 16 centimetres by 50 centimetres.



Not actual size

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

Sourced from SATs-Papers.co.uk https://www.SATs-Papers.co.uk

24 Two whole numbers are each **between 50 and 70**

They multiply to make 4095

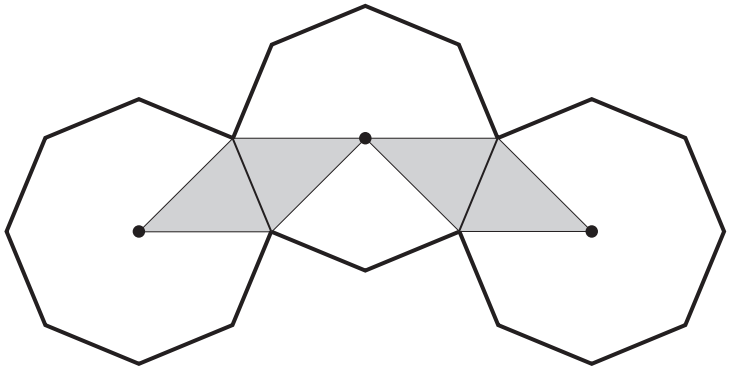
Write in the missing numbers.

24

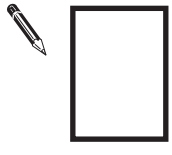
1 mark

25 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

1 mark

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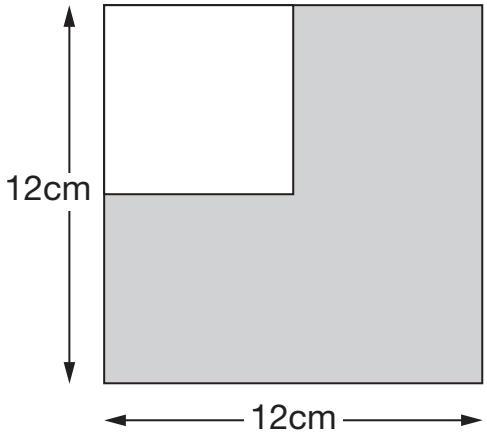
26 A white square is painted in one corner of a grey square.

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



Not actual size

What is the **area** of the grey section?

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

cm²

26i

26ii

2 marks

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End of test

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