Ma

KEY STAGE 2

LEVELS 3–5

2007

Mathematics test

Test B

Calculator allowed

First name _____

Last name _____

School _____

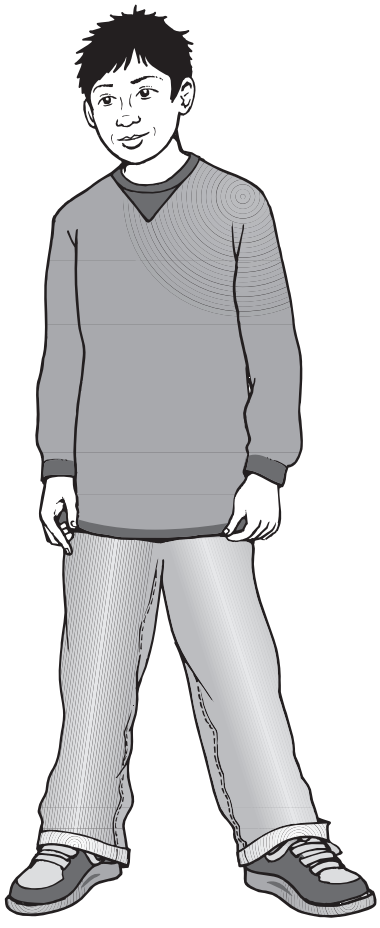
For marker's use only

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

Sourced from www.11pluscentre.co.uk

Jamie

Kate



Hassan

Sourced from www.11pluscentre.co.uk

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.

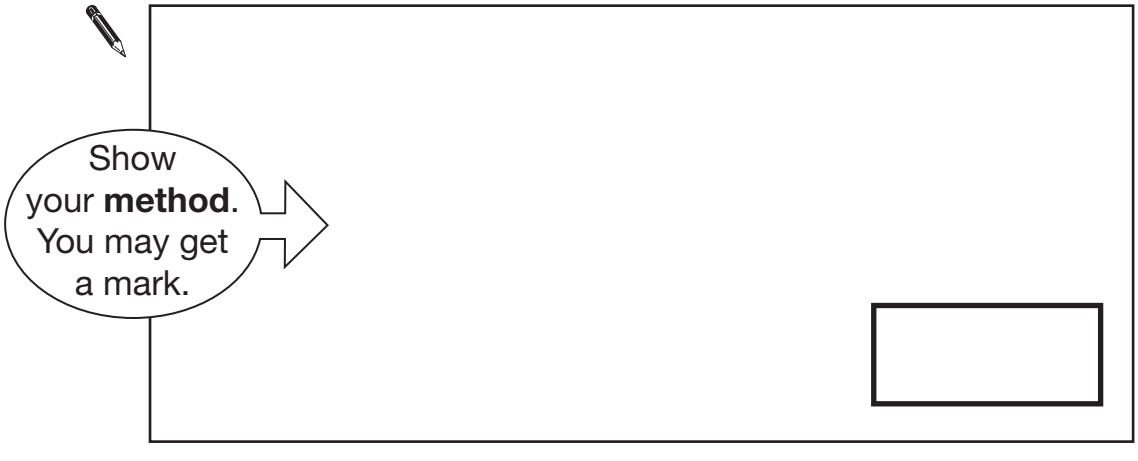
If you finish before the end, **go back and check your work**.

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.

Sourced from www.11pluscentre.co.uk

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

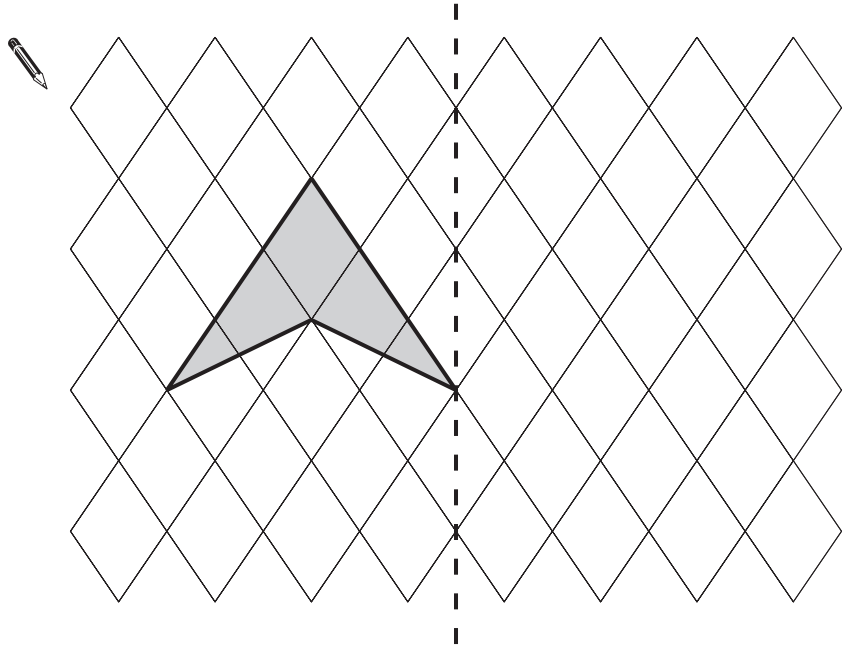
261 246 255 209 275

1

1 mark

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

Use a ruler.



2

1 mark

Sourced from www.11pluscentre.co.uk

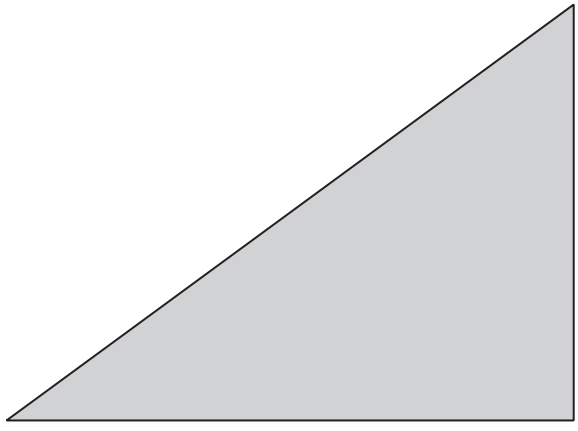
3 The sum of two numbers is 100

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

Total out of 4 _____

Sourced from www.11pluscentre.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 www.11pluscentre.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

Total out of 4 _____

Sourced from www.11pluscentre.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

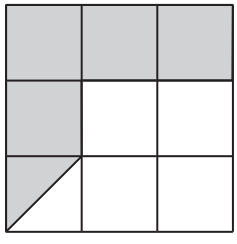
7

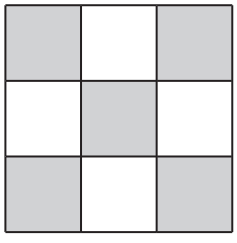
1 mark

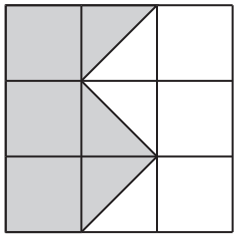
8 Here are five diagrams.

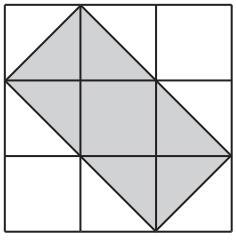
Look at each one.

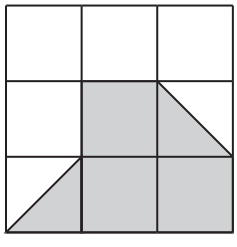
Put a tick (✓) on the diagram if exactly $\frac{1}{2}$ of it is shaded.
Put a cross (✗) if it is not.











8i

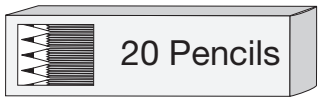
8ii

2 marks

Sourced from www.11pluscentre.co.uk

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

There are 20 pencils in a box.



How many boxes of pencils are needed?

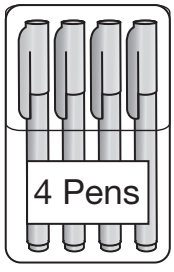
boxes

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

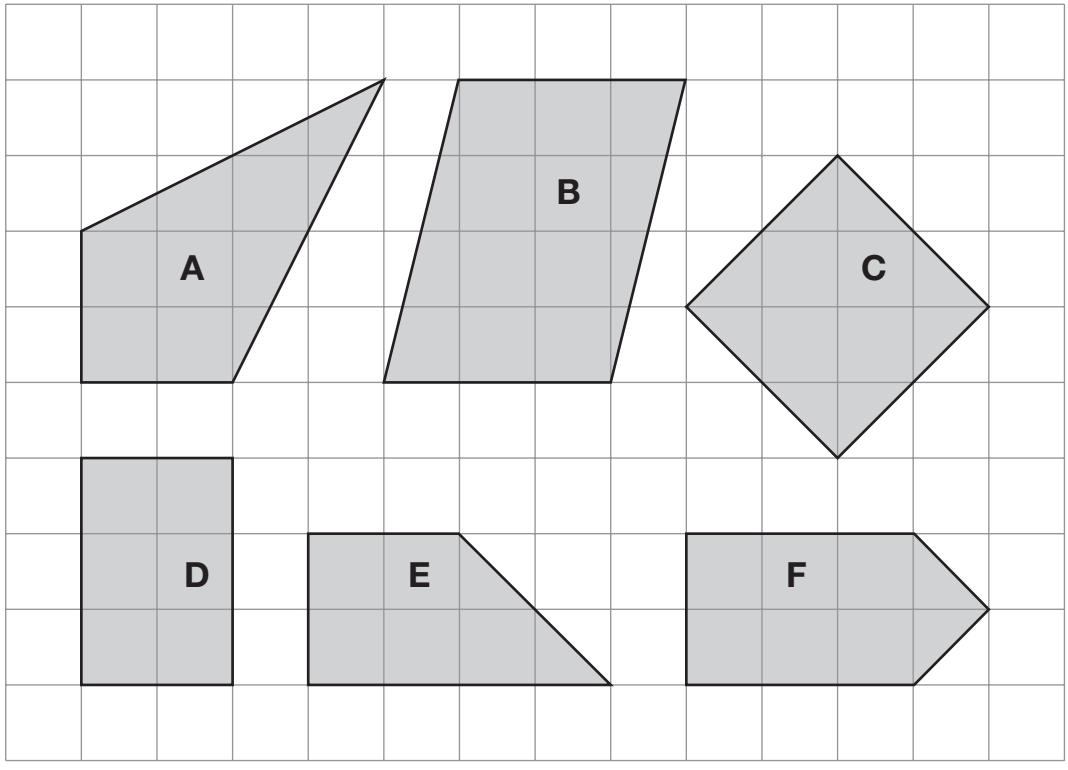
9b

1 mark

Total out of 5 _____

Sourced from www.11pluscentre.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 www.11pluscentre.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

Total out of 5 _____

Sourced from www.11pluscentre.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.

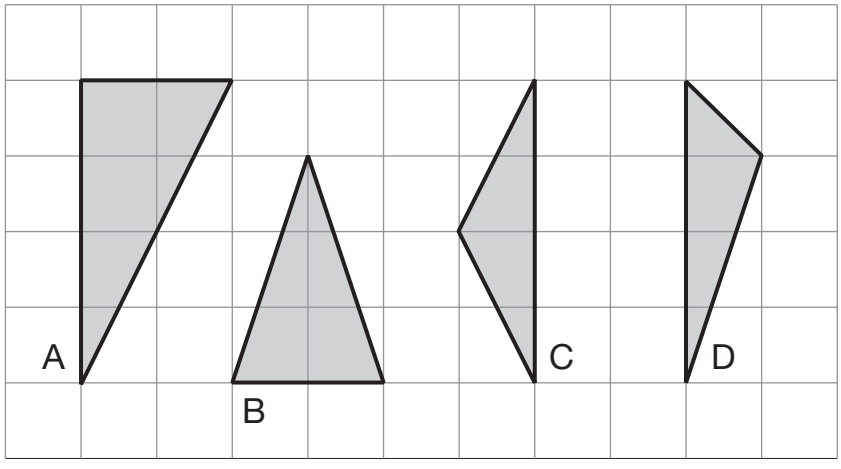
What is **Hassan's time** in seconds?

seconds

13

1 mark

14 Here are four triangles on a square grid.



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

_____ and _____

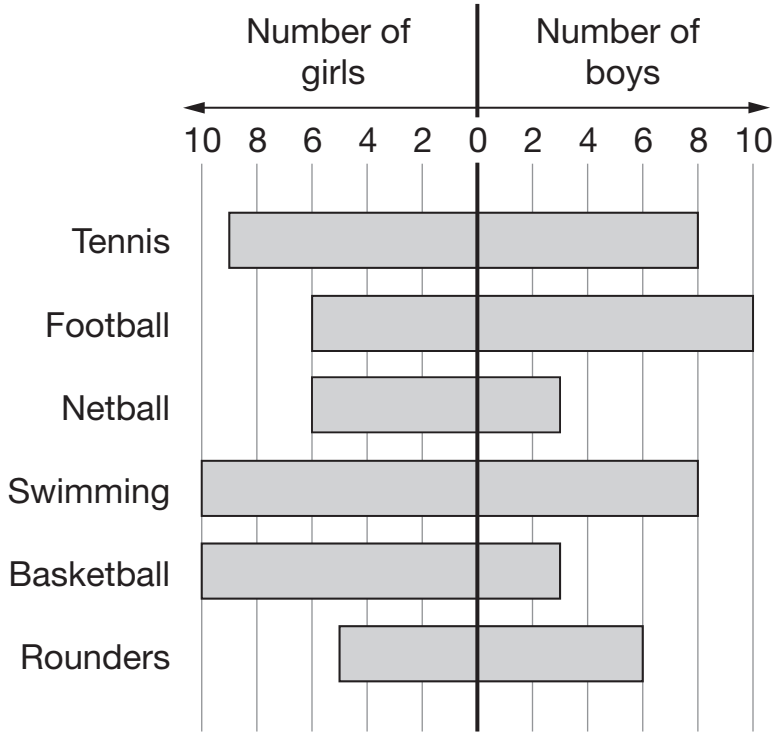
14

1 mark

Sourced from www.11pluscentre.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

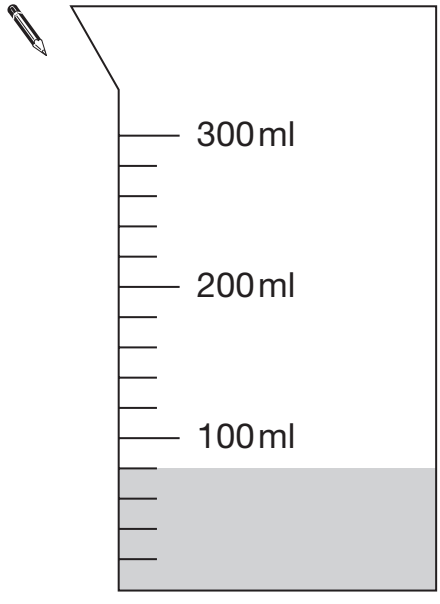
Total out of 5 _____

Sourced from www.11pluscentre.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 www.11pluscentre.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 www.11pluscentre.co.uk

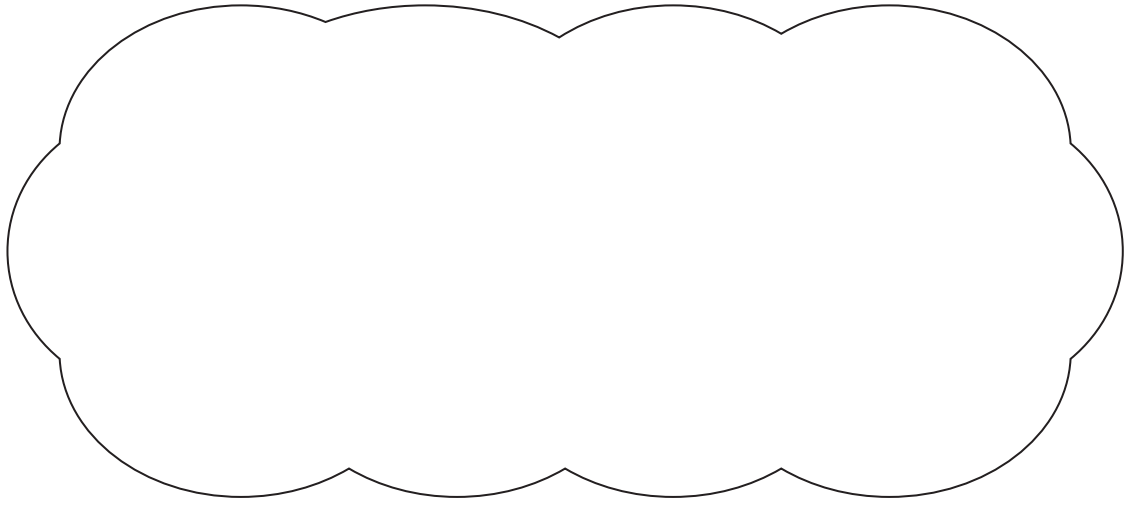
18 Hassan scores 40 out of 80 in a test.

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

Sourced from www.11pluscentre.co.uk

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

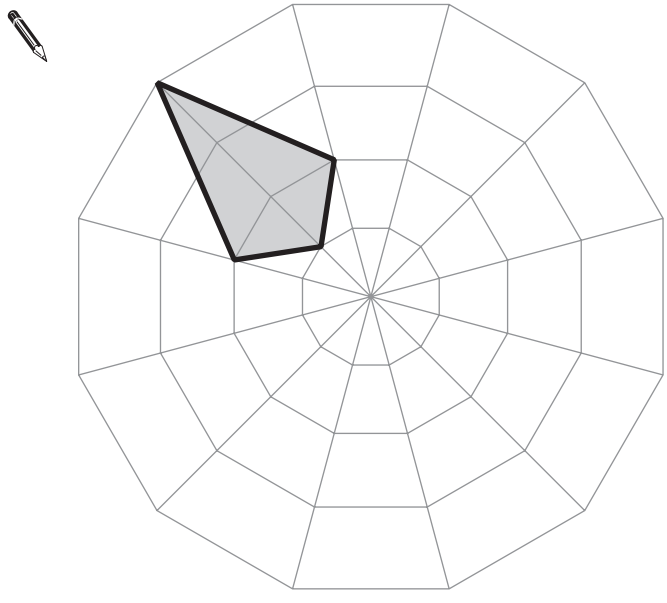
19

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 www.11pluscentre.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.

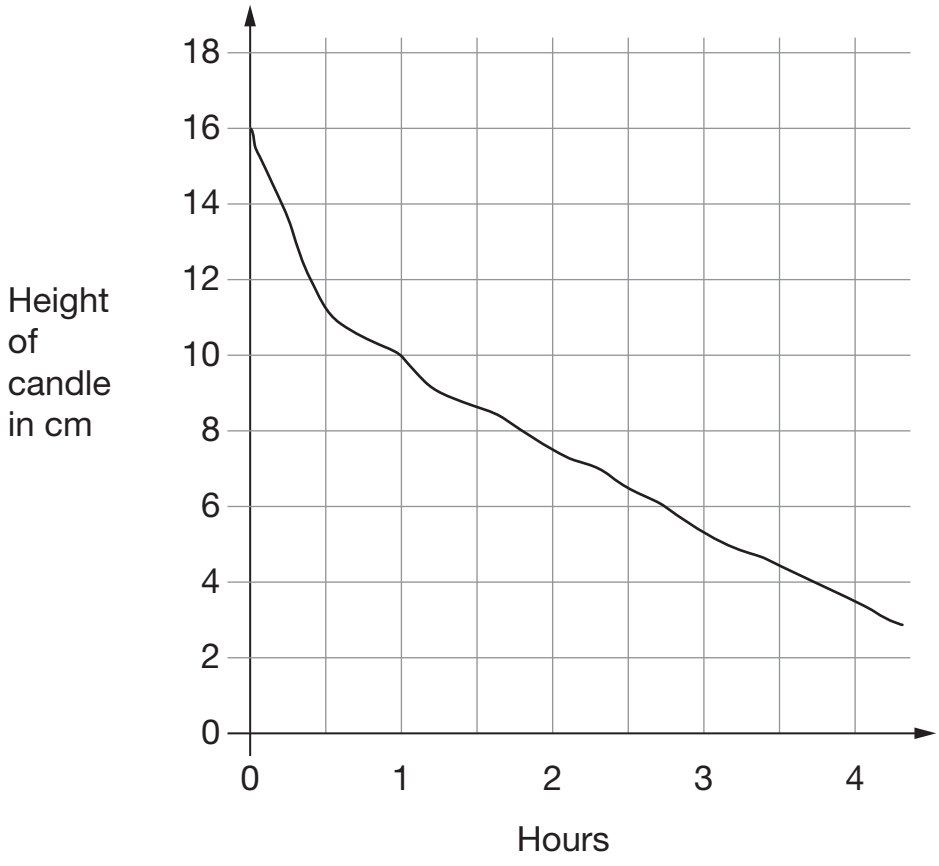
£ 21i

21ii

2 marks

Sourced from www.11pluscentre.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?

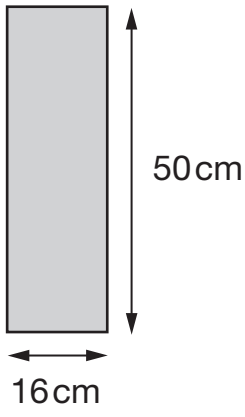
22b

1 mark

Total out of 4 _____

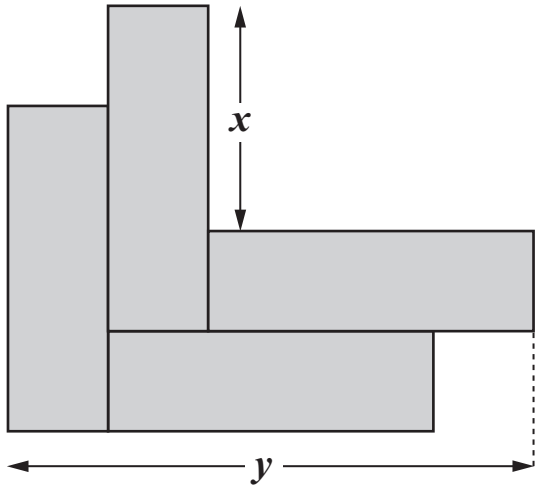
Sourced from www.11pluscentre.co.uk

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 www.11pluscentre.co.uk

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

They multiply to make 4095

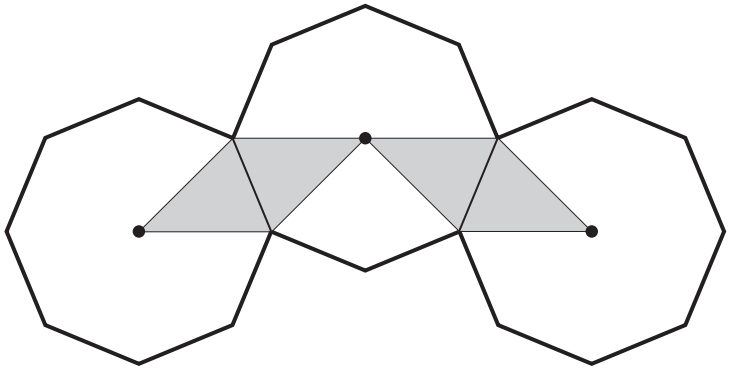
Write in the missing numbers.

24

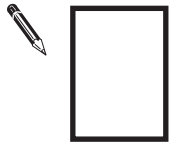
1 mark

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?



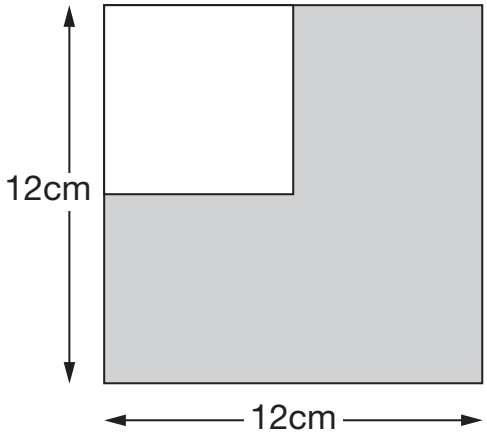
25

1 mark

Sourced from www.11pluscentre.co.uk

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

Sourced from www.11pluscentre.co.uk

End of test

Total out of 2 _____

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QCA/06/2795 (Mark schemes pack)
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