MATHEMATICS

KEY STAGE 2 2004

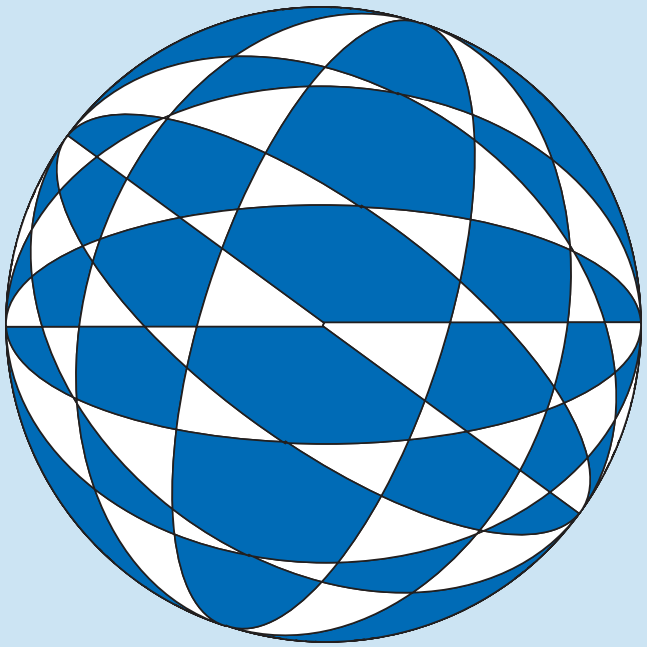
TEST B

LEVELS 3–5

CALCULATOR ALLOWED

PAGE	MARKS
5	
7	
9	
11	
13	
15	
17	
19	
21	
TOTAL	

BORDERLINE CHECK	



First Name

Last Name

School

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.

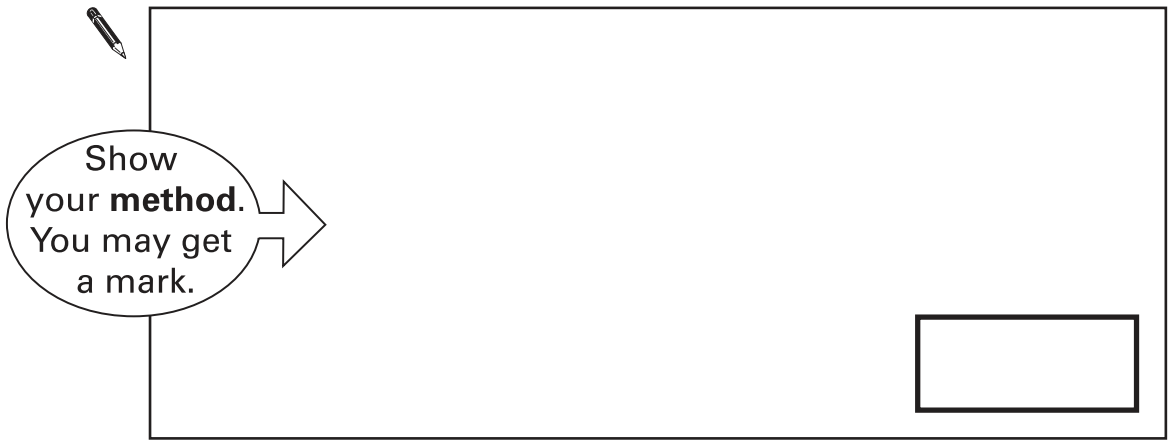
If you finish before the end, **go back and check your work**.

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.

1 Circle the number that is **closest to 700**

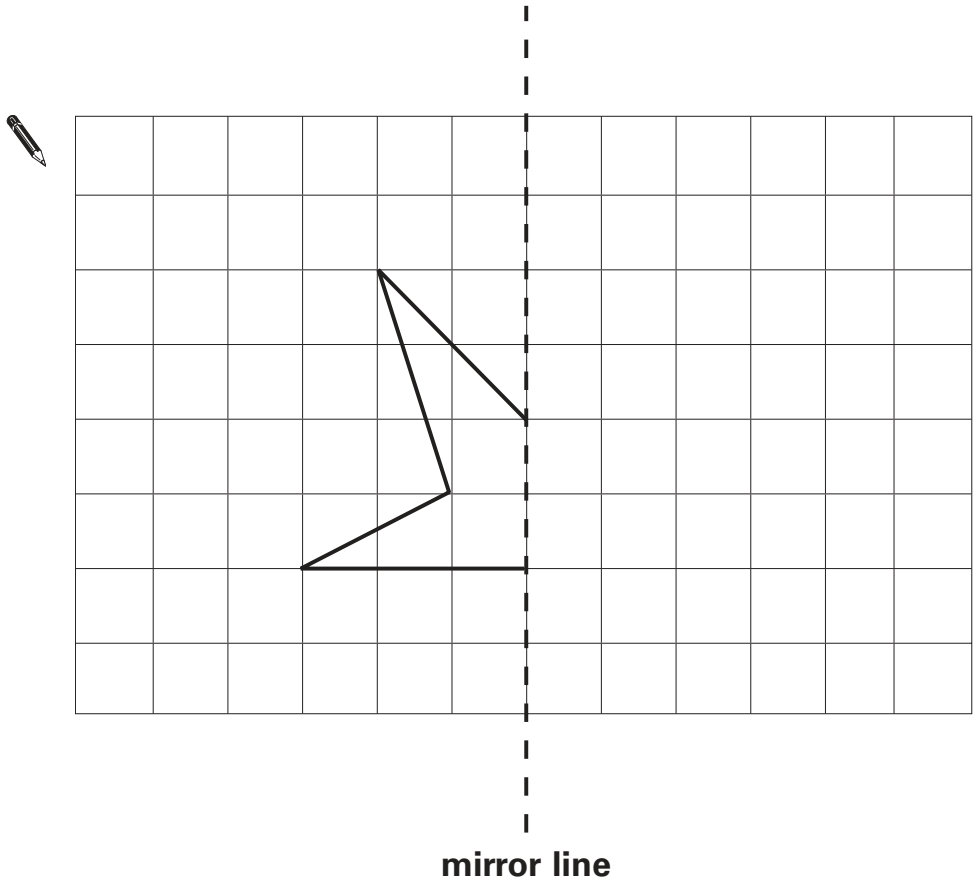
750 72 651 69 770

1

1 mark

2 Complete the diagram below to make a shape that is symmetrical about the mirror line.

Use a ruler.

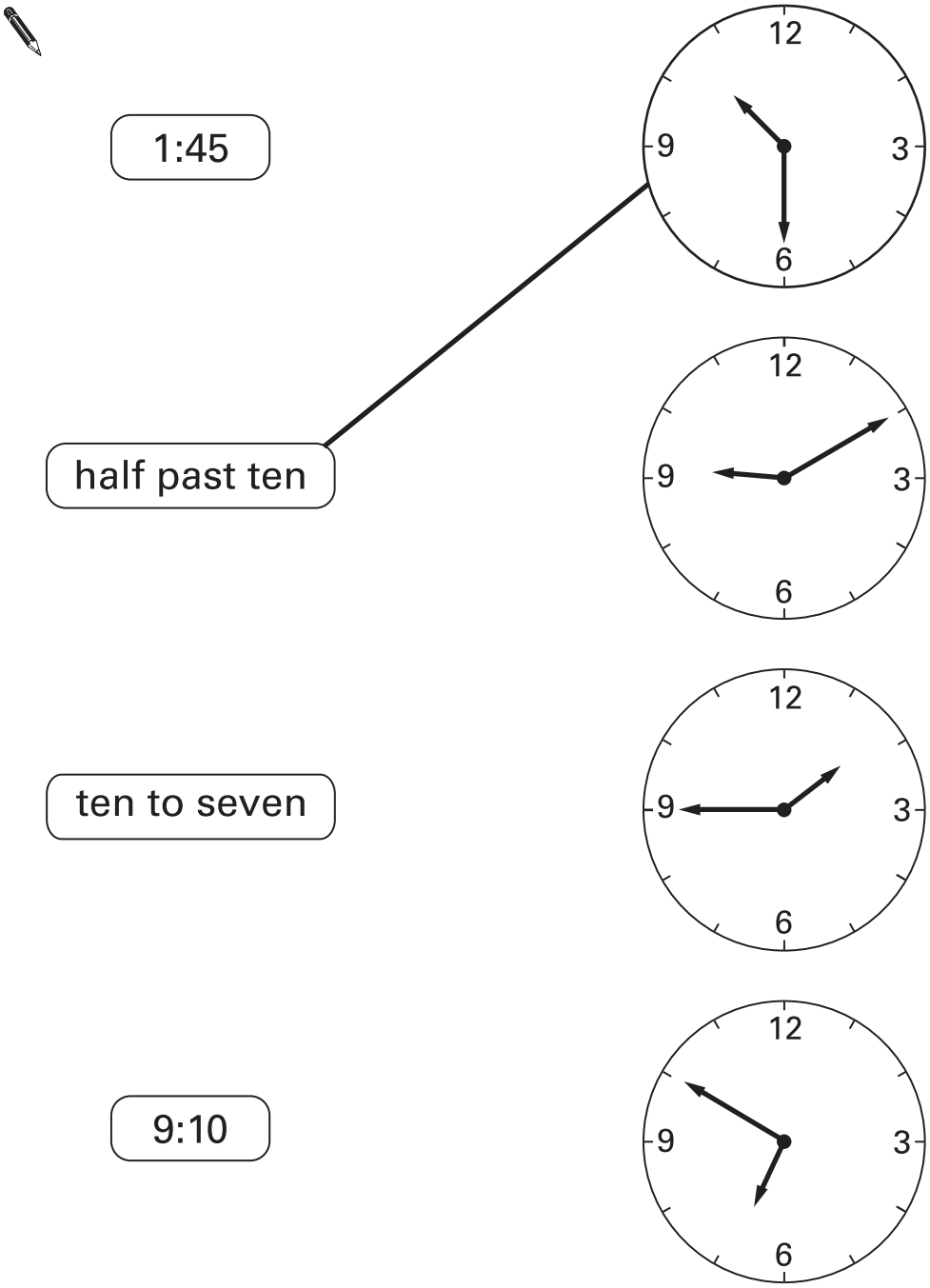


2

1 mark

3 Match each clock to the correct time.

One has been done for you.

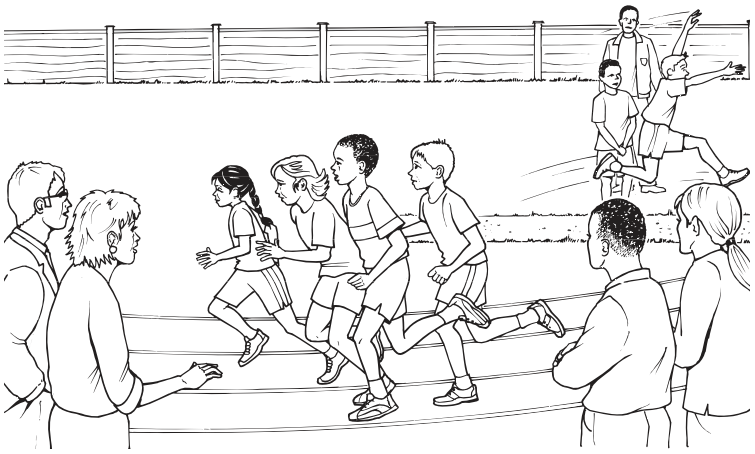


3

1 mark

Total out of 3

4



A school has sports day.

The winner of each event scores **10 points**.

This chart shows the points scored by each team.

Event	Team				
	Red	Green	Blue	Yellow	White
100m	8	6	2	10	4
Long jump	10	2	6	4	8
Relay	4	6	8	10	2
High jump	8	2	10	6	4

How many **events** did the **Yellow team** win?

4a

1 mark

Which team came **second** in the **relay**?

. . . . . .

4b

1 mark

5 Write in the missing numbers.

$3 \times 4 \times \square = 96$

5a

1 mark

$\square + 62 - 46 = 96$

5b

1 mark

6 John says,

'Every multiple of 5 ends in 5'

Is he correct?
Circle Yes or No.

Yes / No

Explain how you know.

.....

.....

.....

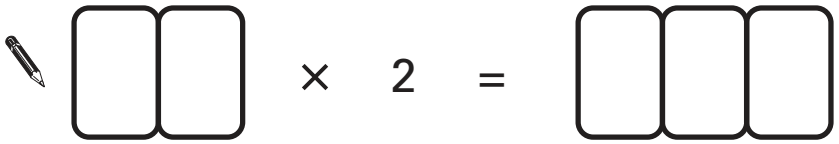
6

1 mark

Total out of 5

7 Here are five digit cards.

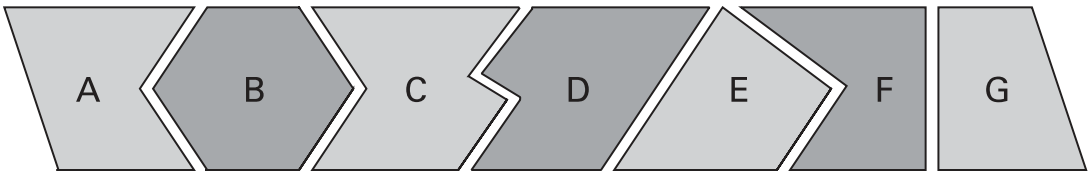
Use **all** five digit cards to make this correct.



7

1 mark

8 Here are seven shapes.



Write the letters of the two shapes which are **pentagons**.

. . . . . and . . . . . .

8

1 mark

9 Cinema tickets cost **£3.65** each.

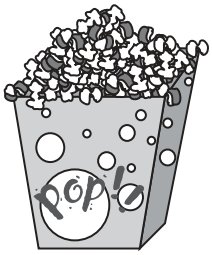
Hannah buys **4 tickets**.

How much does Hannah pay?

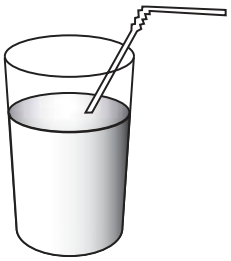
£

9a

1 mark



popcorn
£1.95



milkshake
£1.25

Nico buys a **box of popcorn** and **two milkshakes**.

How much does Nico spend **altogether**?

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

£

9bi

9bii

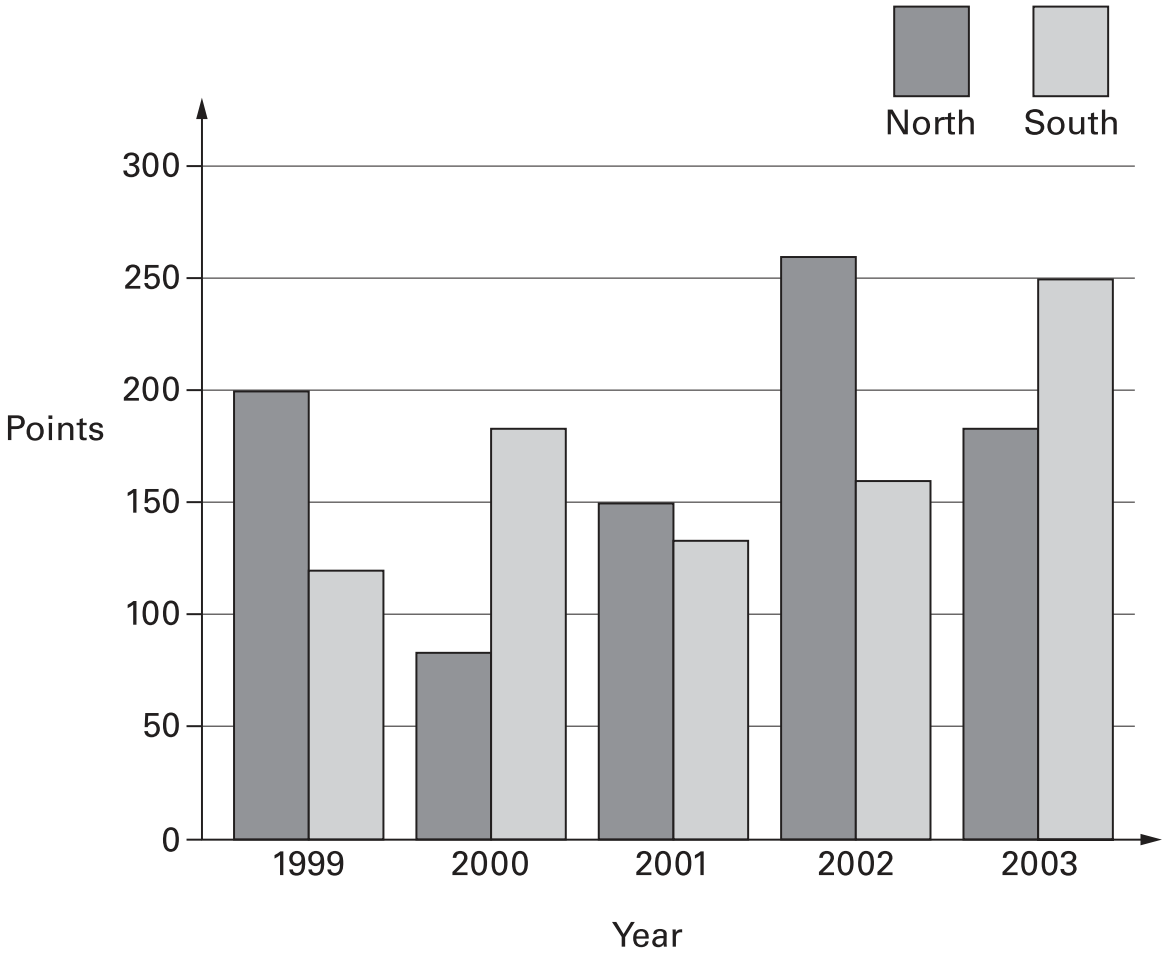
2 marks

Total out of 5

10 A school has a quiz each year.

There are two teams.

Here are their results.



In which year did **North beat South** by 100 points?

10a

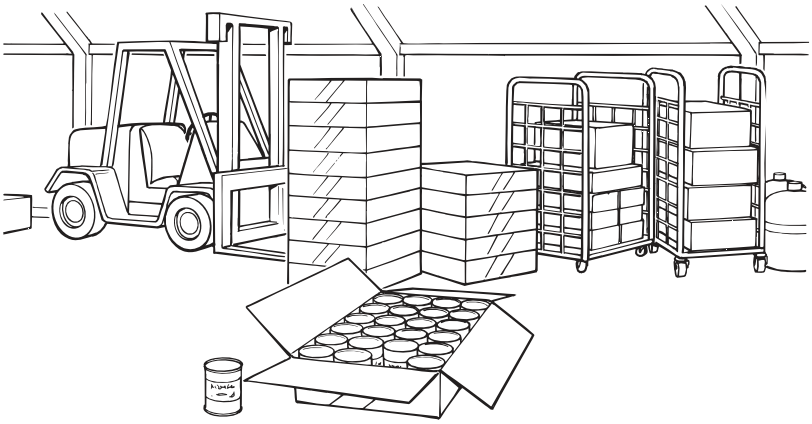
1 mark

In which year did **South beat North** by the greatest amount?

10b

1 mark

11



In a supermarket storeroom there are

7 boxes of tomato soup

5 boxes of pea soup

4 boxes of chicken soup

There are **24 tins** in every **box**.

How many **tins** of soup are there **altogether**?

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

11i

11ii

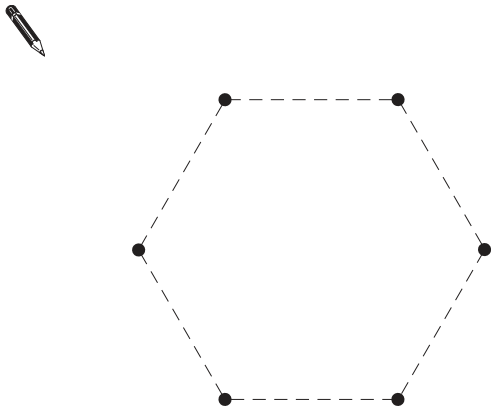
2 marks

Total out of 4

12 Here is a regular hexagon.

Join three of the dots to make an **equilateral** triangle.

Use a ruler.



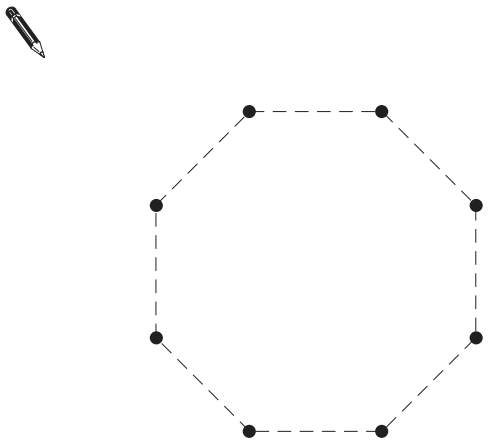
12a

1 mark

Here is a regular octagon.

Join three of the dots to make an **isosceles** triangle.

Use a ruler.



12b

1 mark

13 Here are three supermarket bills.

Tom rounds each bill **to the nearest £10** and then adds them up.

What is the total amount that Tom gets?

£

13a

1 mark

Mary adds up the three bills **exactly**.

What is the difference between her total and Tom's total?

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

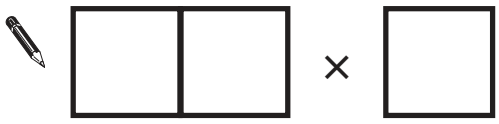
13bi

13bii

2 marks

Total out of 5

14 Use the digits **2**, **3** and **4** once to make the multiplication which has the **greatest product**.

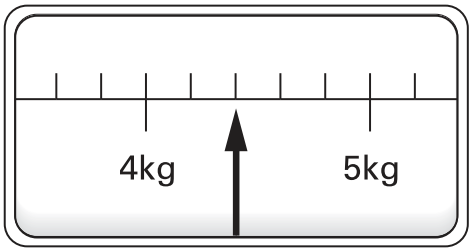


14

1 mark

15 This scale shows the weight of Fred's cat.

Fred's cat



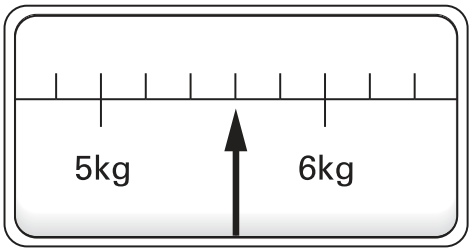
What is the weight of Fred's cat?

15a

1 mark

This scale shows the weight of Fred's dog.

Fred's dog

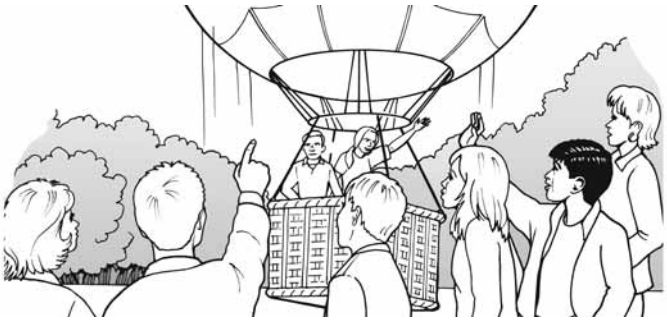


How much **more** does Fred's dog weigh than his cat?

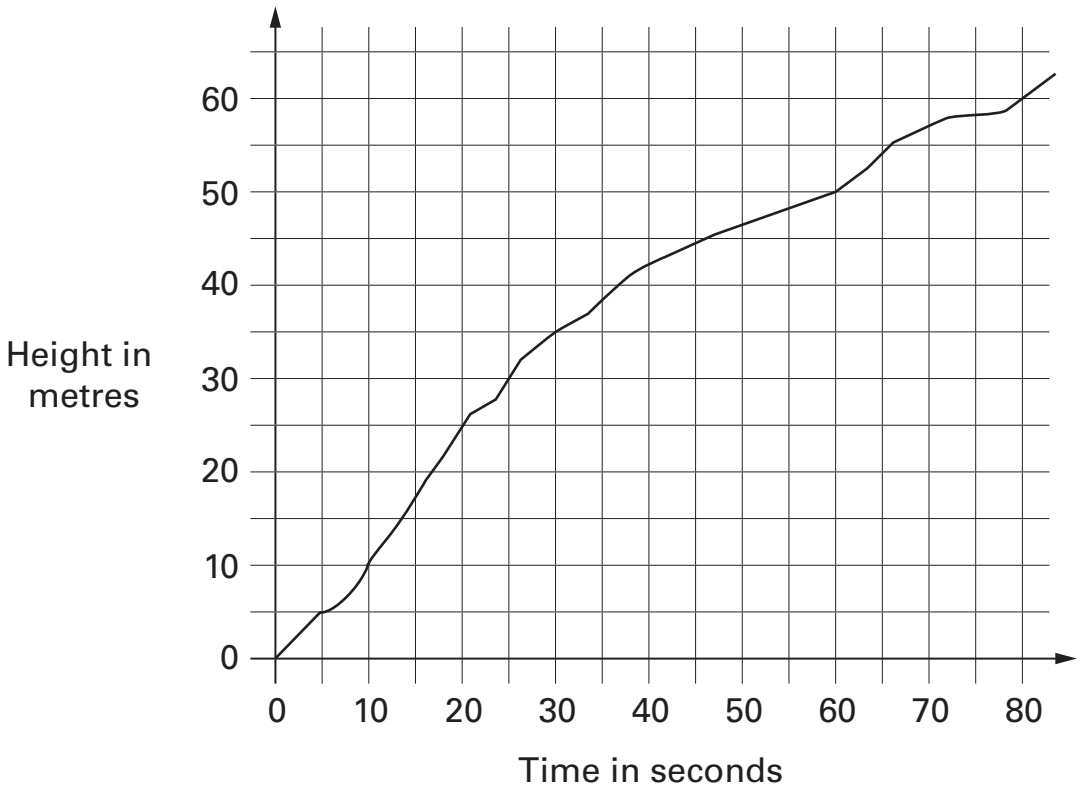
15b

1 mark

16



This graph shows the height of a balloon at different times.



From the graph, find the height of the balloon at 50 seconds.

m

16a

1 mark

Use the graph to find how long it took the balloon to rise from 30 metres to 60 metres.

seconds

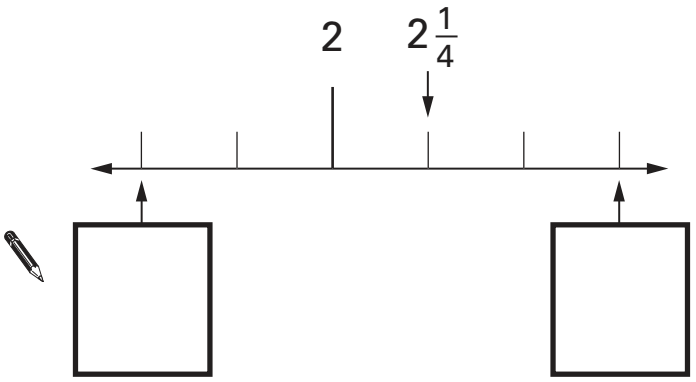
16b

1 mark

Total out of 5

17 Here is part of a number line.

Write in the two missing numbers.



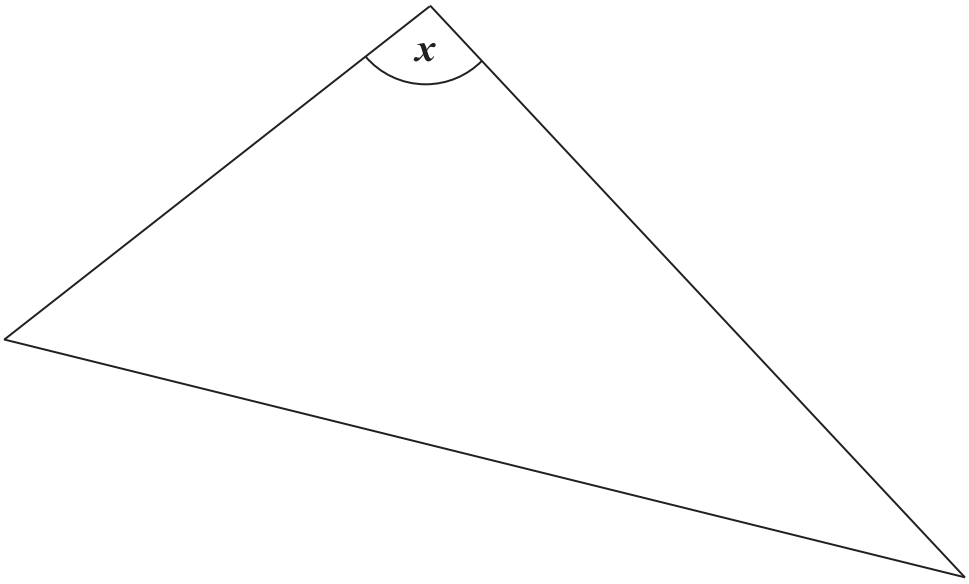
17a

1 mark

17b

1 mark

18



Measure angle x accurately.

Use a protractor (angle measurer).

18

1 mark

19 Write in the missing numbers.

$\square \div 21.7 = 37.5$

19a

1 mark

$100 - (22.75 + 19.08) = \square$

19b

1 mark

20 Here are five number cards.

A	A	A	B	B

A and B stand for two **different** whole numbers.

The sum of all the numbers on all five cards is 30

What could be the values of A and B?

A = ☐ **B** = ☐

20

1 mark

Total out of 6

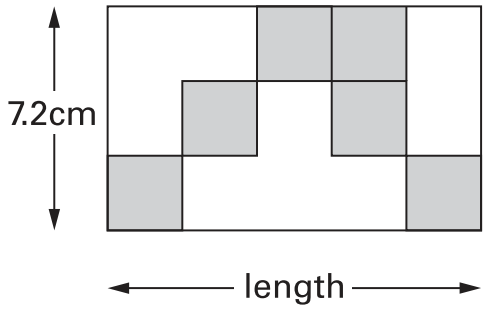
21 Write the **largest** whole number to make this statement true.

$$50 + \square < 73$$

21

1 mark

22 Here is a rectangle with six identical shaded squares inside it.



Not actual size

The width of the rectangle is **7.2 centimetres**.

Calculate the **length** of the rectangle.

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

cm

22i

22ii

2 marks

23 A sequence of numbers starts at 11 and follows the rule

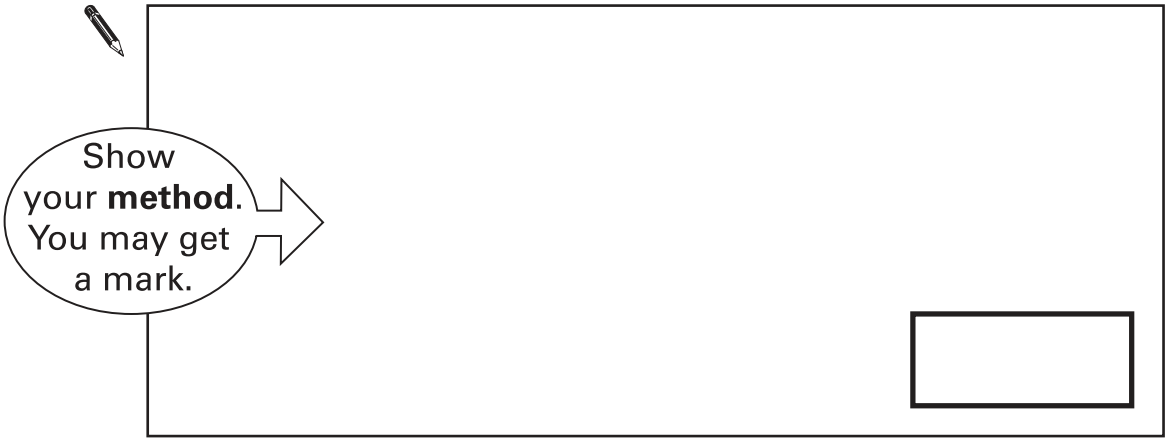
'double the last number and then subtract 3'

11 19 35 67 131 ...

The sequence continues.

The number 4099 is in the sequence.

Calculate the number which comes immediately **before 4099** in the sequence.



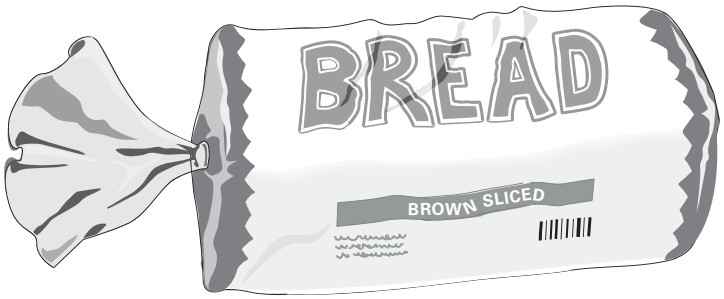
23i

23ii

2 marks

Total out of 5

24



Every **100g** of brown bread contains **6g** of fibre.

A loaf of bread weighs 800g and has 20 equal slices.

How much fibre is there in **one** slice?

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

g

24i

24ii

2 marks

End of test

Total out of 2

QCA key stage 2 team, 83 Piccadilly, London W1J 8QA

Order refs:
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