

# MATHEMATICS

KEY STAGE 2 2004

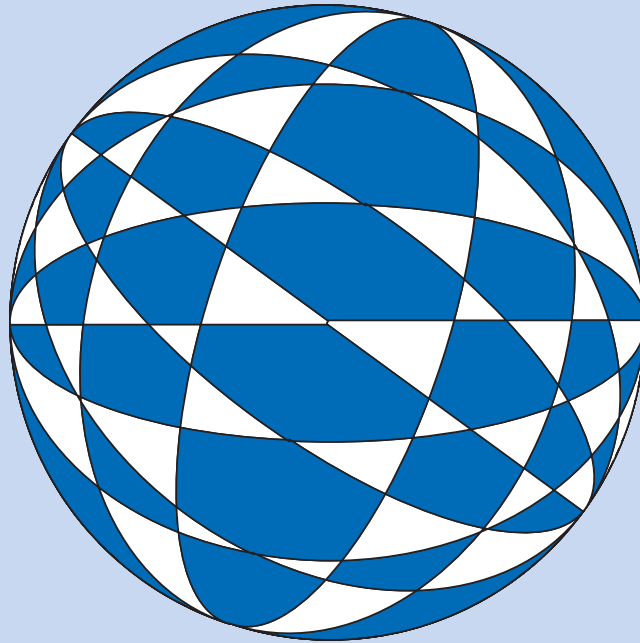
TEST B

LEVELS  
**3-5**

CALCULATOR ALLOWED

PAGE	MARKS
5	
7	
9	
11	
13	
15	
17	
19	
21	
<b>TOTAL</b>	

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:**



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

A large empty rectangular box intended for showing the student's method. A smaller empty rectangular box is located in the bottom right corner of this area.

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



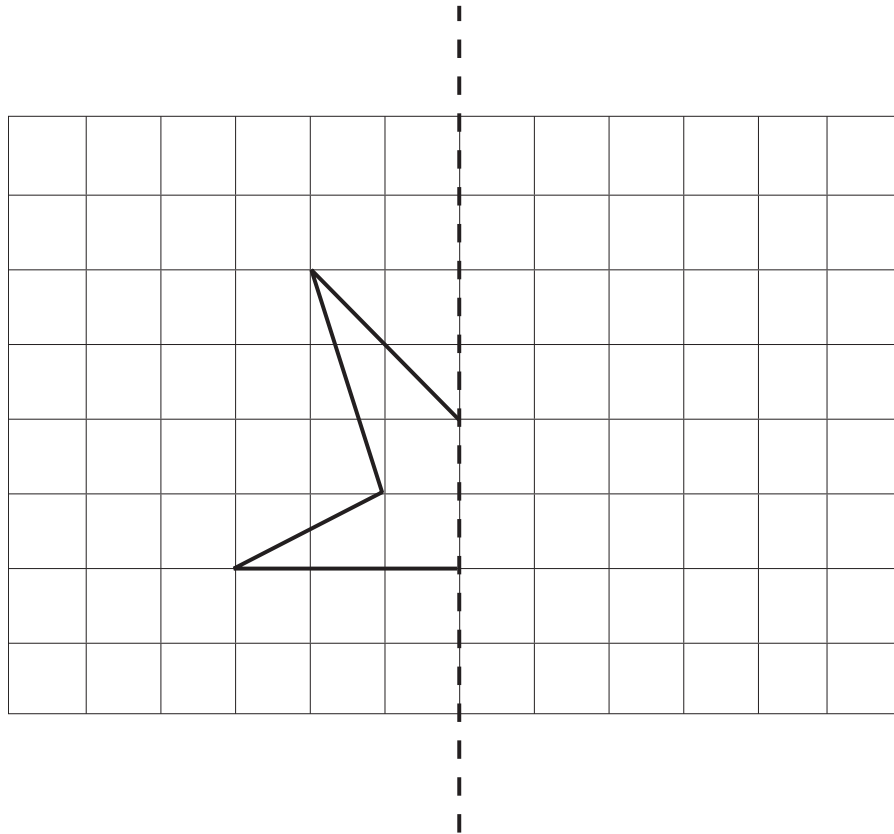
1

1 mark

2

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

Use a ruler.



mirror line



2

1 mark

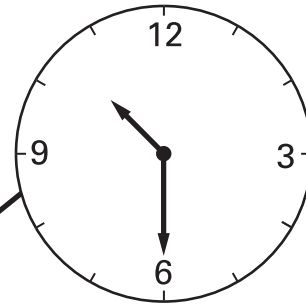
3

Match each clock to the correct time.

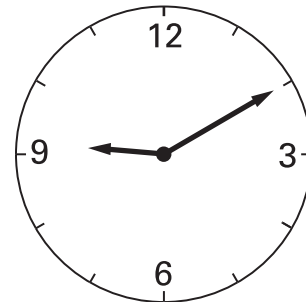
One has been done for you.



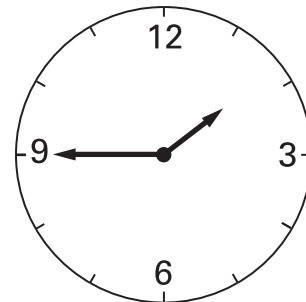
1:45



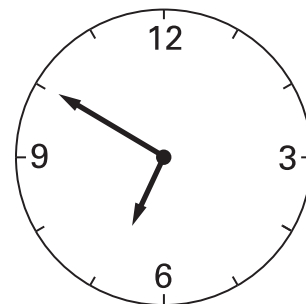
half past ten



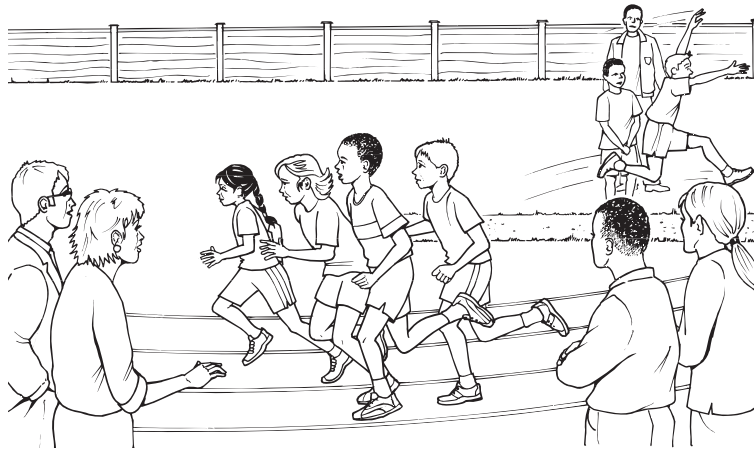
ten to seven



9:10



3  
1 mark



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.



$$3 \times 4 \times \boxed{\phantom{000}} = 96$$

$$\boxed{\phantom{000}} + 62 - 46 = 96$$

5a  
1 mark

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

.....

7

Here are five digit cards.



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

   × 2 =

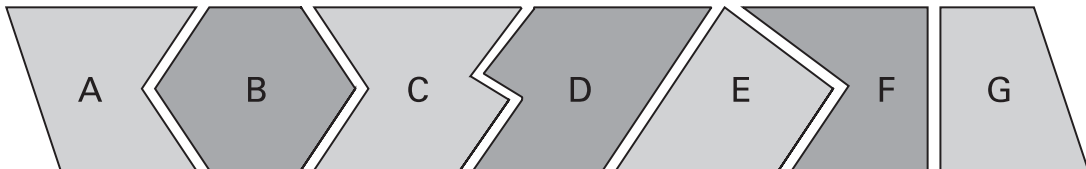


7

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.

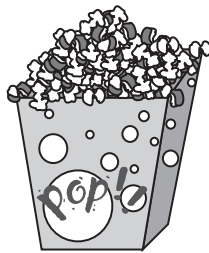
Hannah buys **4 tickets**.



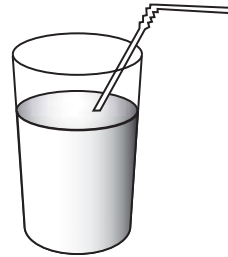
How much does Hannah pay?



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.

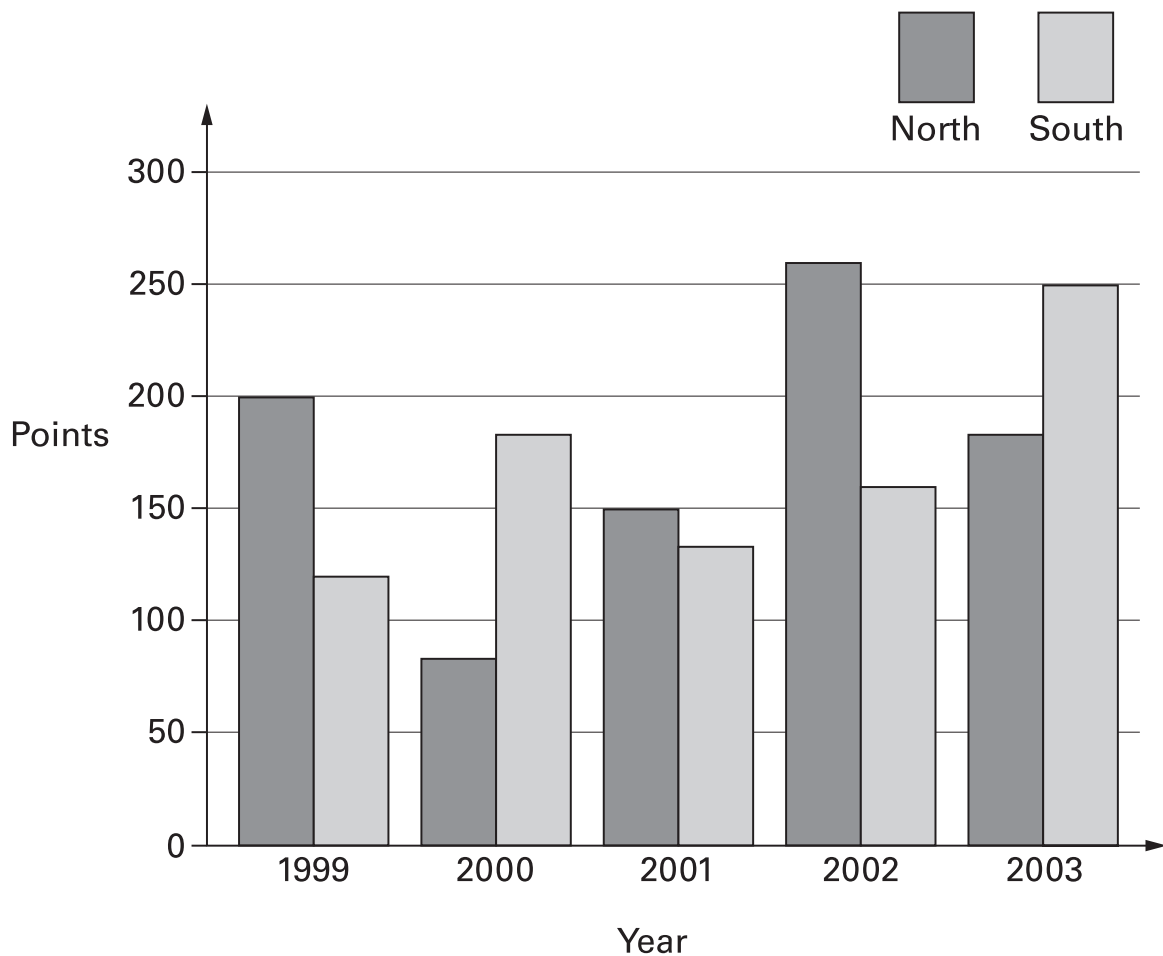
9bi  
9bii  
2 marks

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

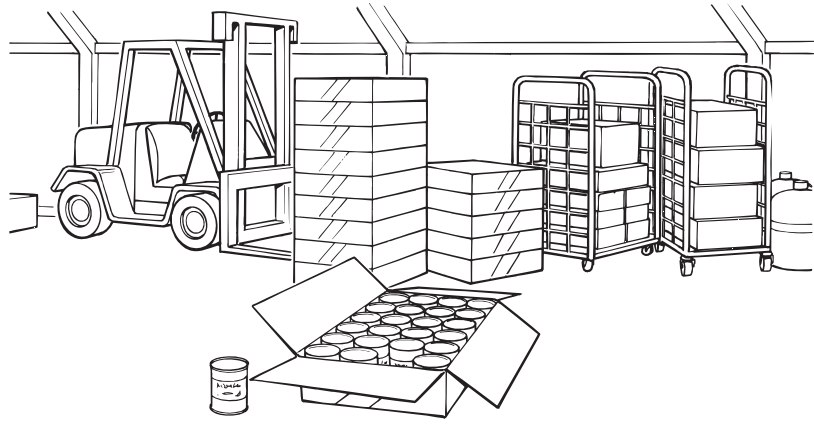
1 mark

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



10b

1 mark




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

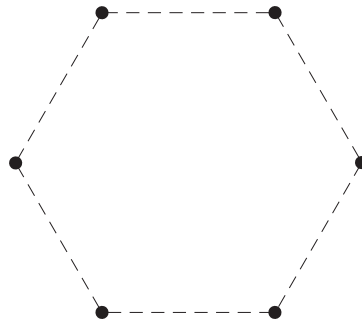


12

Here is a regular hexagon.

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

Use a ruler.



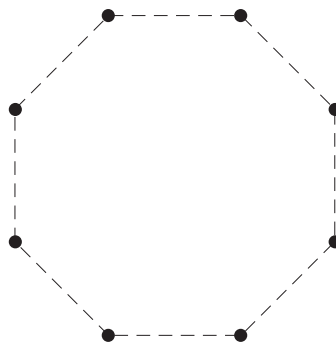
12a

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



14

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

   ×

14

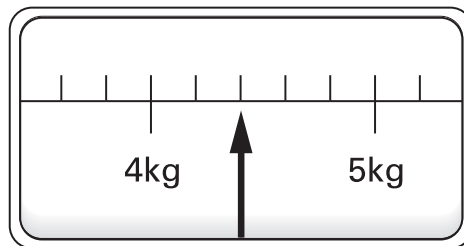
1 mark

15

This scale shows the weight of Fred's cat.



Fred's cat



What is the weight of Fred's cat?



kg

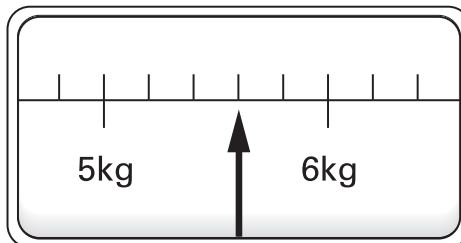
15a

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?



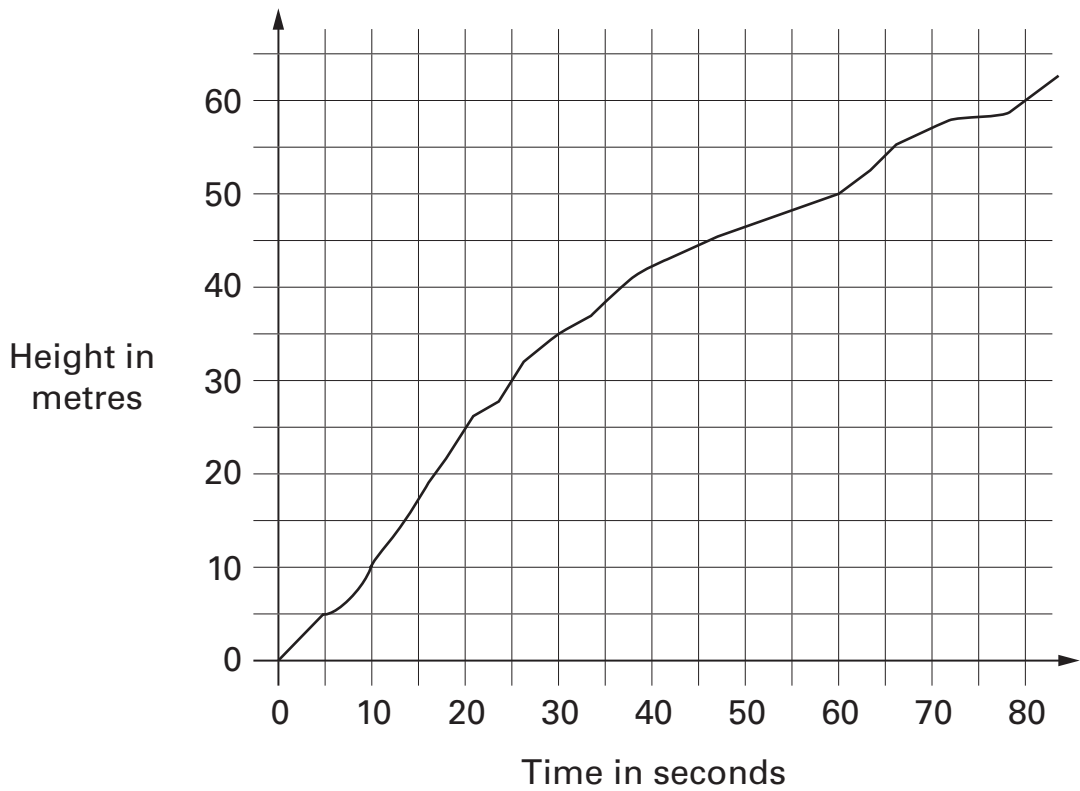
kg

15b

1 mark



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



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



16a  
1 mark

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



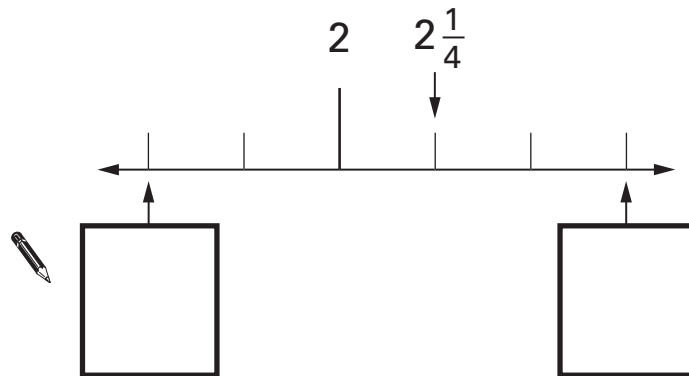
16b  
1 mark



17

Here is part of a number line.

Write in the two missing numbers.



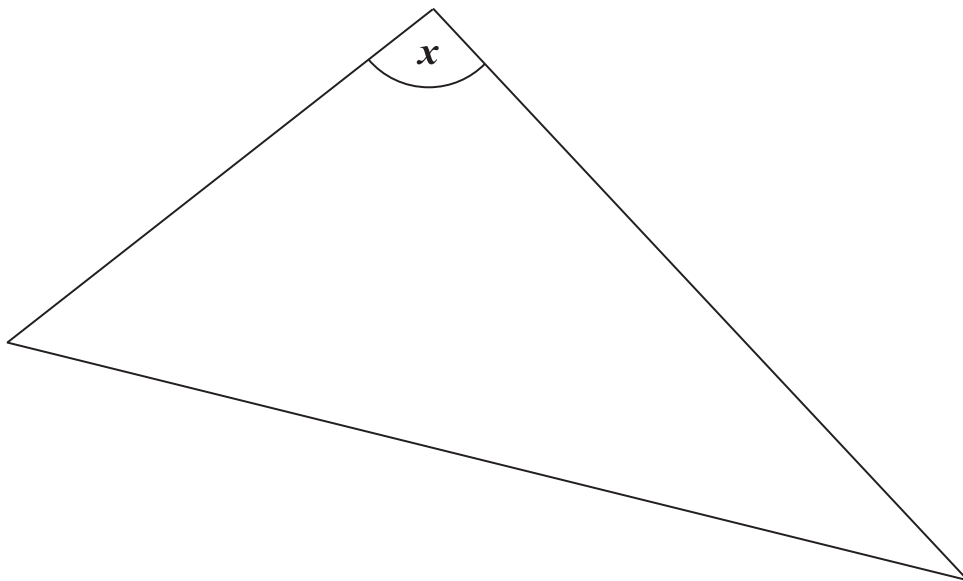
17a

1 mark

17b

1 mark

18



Measure angle  $x$  accurately.

Use a protractor (angle measurer).



18

1 mark



**19**

Write in the missing numbers.



$$\boxed{\phantom{000}} \div 21.7 = 37.5$$



19a

1 mark

$$100 - (22.75 + 19.08) = \boxed{\phantom{000}}$$

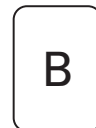
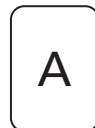


19b

1 mark

**20**

Here are five number cards.

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?



$$A = \boxed{\phantom{00}}$$

$$B = \boxed{\phantom{00}}$$



20

1 mark



21

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

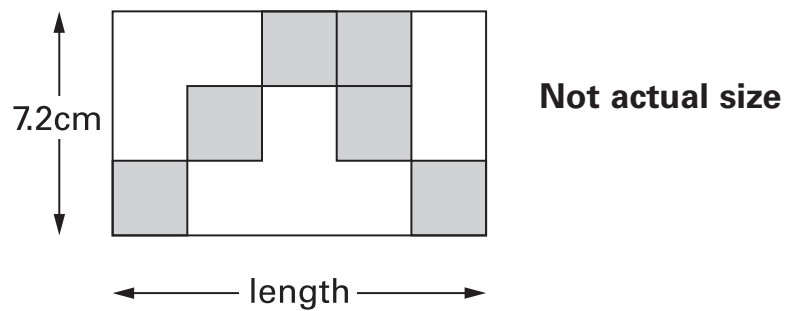
  $50 + \square < 73$

21

1 mark

22

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




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.



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

23i

23ii

2 marks

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





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

**Order refs:**

QCA/04/1254 (pupil pack)

QCA/04/1252 (mark schemes pack)