

Ma

KEY STAGE

3-5

Mathematics test

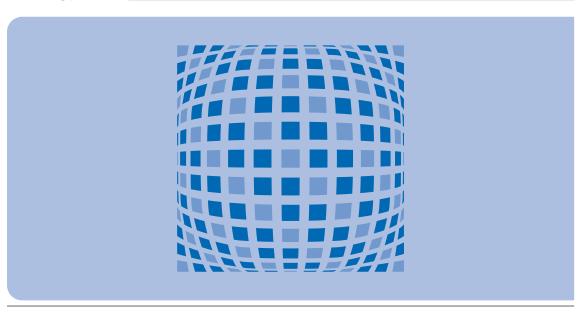
# Test B

## Calculator allowed

Last name

School

DfE no.

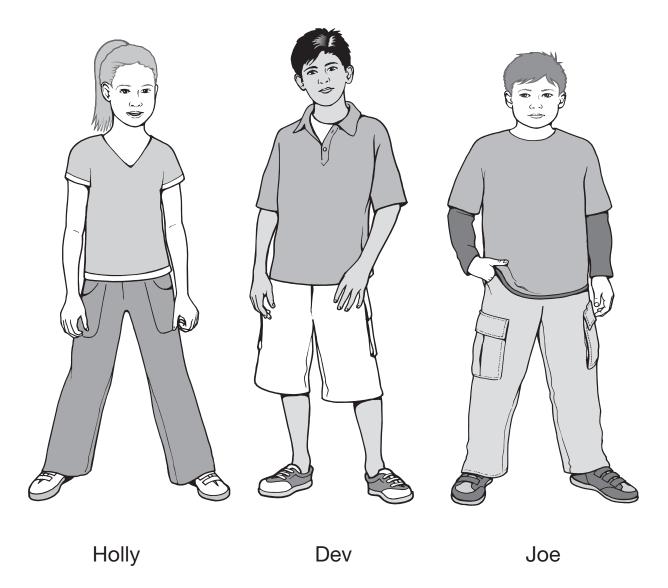


For marker's use only

Page	Marks
5	
7	
9	
11	
13	
15	
17	
19	
21	
23	
25	
TOTAL	



These three children appear in some of the questions in this test.





#### 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.

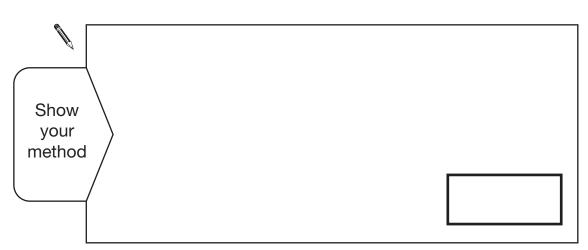
#### Follow the instructions for each question carefully.



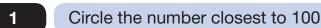
This shows where you need to put the answer.

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.





70

120

85

**(** 

111

909

1 mark

Here are six number cards.

**(** 

20

30

30

40

50

Use all the number cards to complete the two sums below.

+

| |=

1 mark

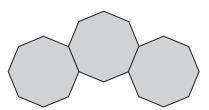


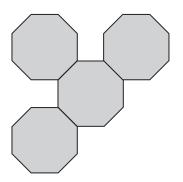
These diagrams are made from regular octagons.

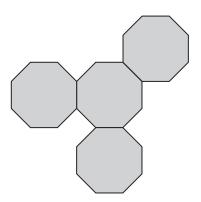
Draw the line of symmetry on each diagram.

Use a ruler.









3i

3ii

2 marks

5

Total out of 4





For each of these pairs, tick  $(\checkmark)$  the calculation that has the **greater** answer.

One has been done for you.





828 – 332

4i

2 marke

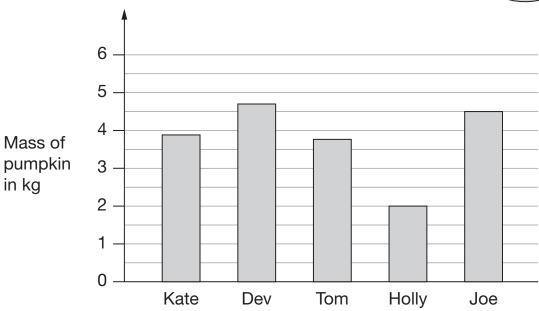
2M008\_V01\_KS2MathsTestB\_05012011.indd 6



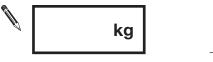
Five children grow pumpkins.

This bar chart shows how heavy their pumpkins are.



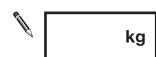


How much heavier is Joe's pumpkin than Holly's?



1 mark

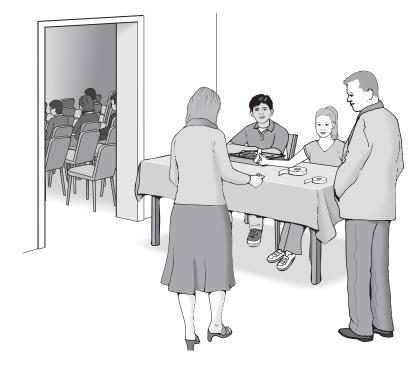
What is the mass of Dev's pumpkin to the nearest kilogram?



5b

1 mark





Tickets for a school play cost £2.75 each.

Dev sold 23 tickets.

### How much ticket money did Dev collect?



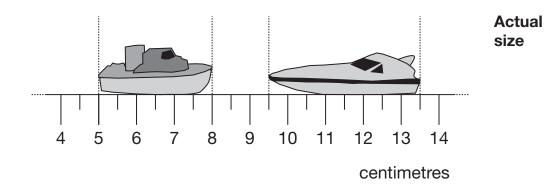
Holly collected £77 altogether from selling tickets.

How many tickets did she sell?



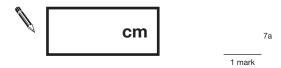


Here are two model boats on a centimetre scale.

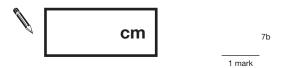


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How far apart are the boats?



What is the **difference** in the lengths of the two boats?



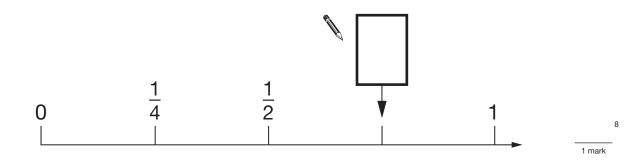


Total out of 4

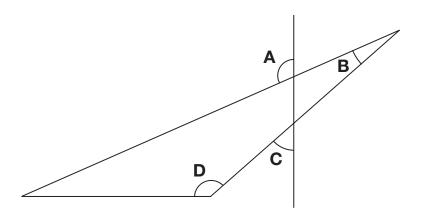


Here is part of a number line.

Write in the missing fraction.



This diagram has four angles marked A, B, C and D.



Write the letters of the angles that are **obtuse** angles.

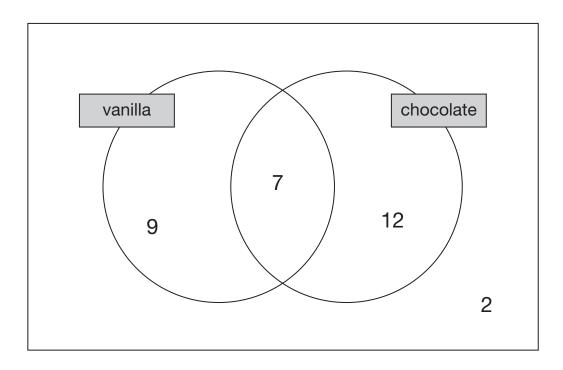




10

Joe asked the children in his class which flavours of ice-cream they like.

He recorded the results in a Venn diagram.



How many children like chocolate ice-cream?



How many children do not like vanilla ice-cream?



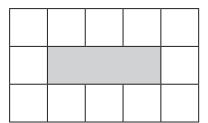


11

Downloaded from www.ness.uk.com



This diagram shows a shaded rectangle surrounded by squares.



What fraction of the diagram is shaded?





**(** 

Joe goes skating every Saturday.

He went skating on Saturday January 1st.



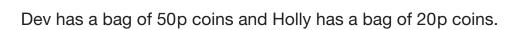
Altogether, how many times did Joe go skating in January?



12

mark









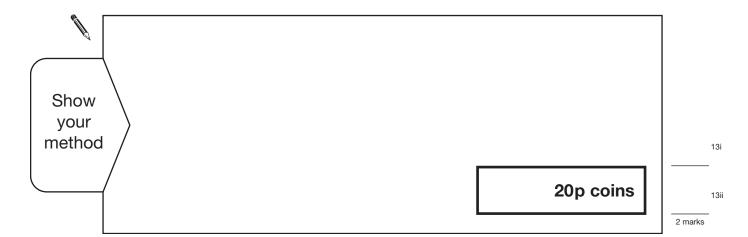


Holly's bag

Both bags have the same amount of money in.

There are **thirty** 50p coins in Dev's bag.

How many 20p coins are there in Holly's bag?



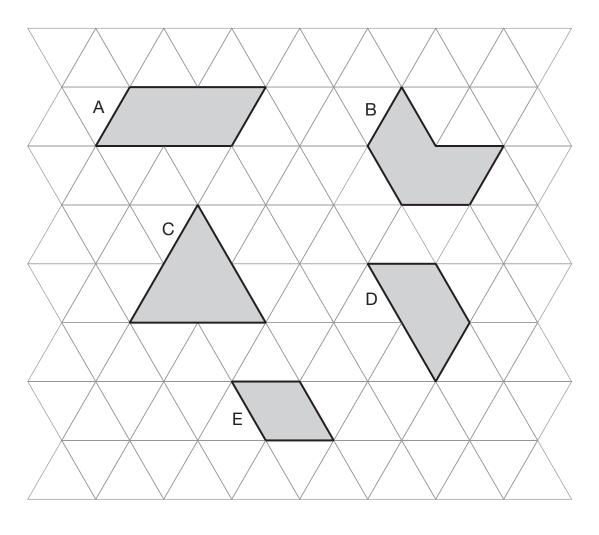








•



Write the letter of the shape that is a **rhombus**.



Write the letter of the shape that has only **one** pair of parallel sides.

	1	14
	1 mark	





The numbers in this sequence increase by 3 each time.

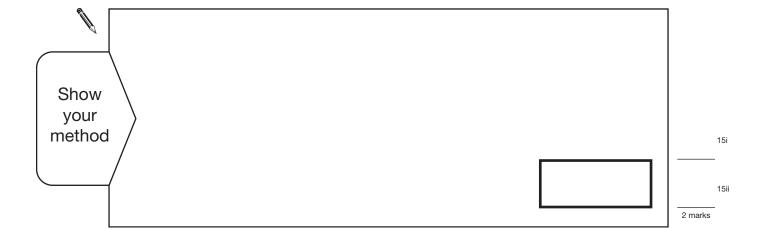
3 6 9 12 ...

The numbers in this sequence increase by 5 each time.

5 10 15 20 ...

Both sequences continue.

Write a number greater than 100 which will be in both sequences.







Total out of 4 \_



Here are four masses.

2 kilograms

1 tonne 800 grams  $\frac{1}{2}$  kilogram

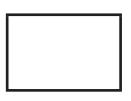
Write the masses in order, starting with the lightest.



lightest







16

1 mark

17

**(** 

Two 2-digit numbers multiply to make 176

Write the two missing numbers.

×



= 176

17

1 mark



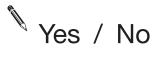
18

Dev says,

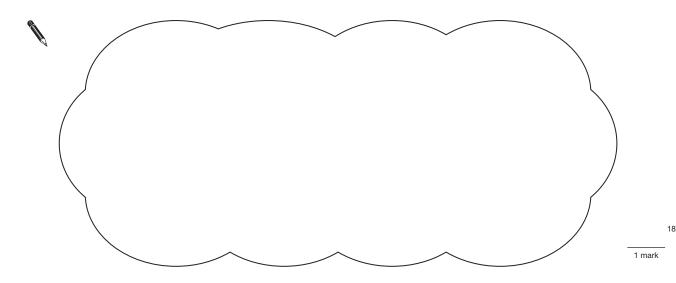
'When you halve any number that ends in 8 the answer always ends in 4'.



Is he correct? Circle **Yes** or **No**.



Explain how you know.





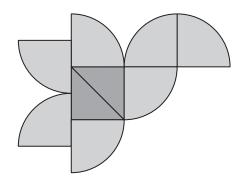




Joe has some triangular tiles and some quarter-circle tiles.



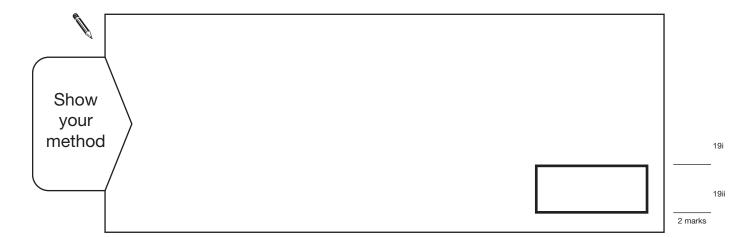
He uses 2 triangles and 7 quarter-circles to make this 'flying bird' design.



Joe makes some more of these 'flying bird' designs.

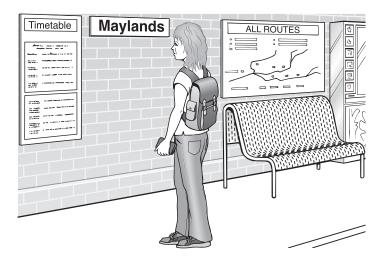
He uses 56 quarter-circles.

## How many triangles does he use?





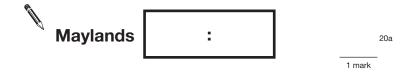




Here is part of the morning train timetable from Perth to Midland in Australia.

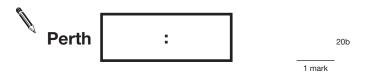
Perth	07:11	07:20	07:27	07:35	07:43	07:55
Maylands	_	07:28	07:33	07:43	07:49	08:03
Ashfield	_	_	07:38	_	07:54	_
Success Hill	07:25	_	07:41	_	07:57	_
Midland	07:32	07:41	07:48	07:56	08:05	08:16

What time is the first train from Maylands that stops at Success Hill?



Mr Evans is in Perth and wants to be in Midland by 08:00

What is the time of the latest train he can take from Perth?



19 Total out of 4

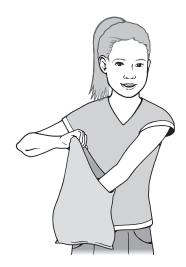




A bag contains 50 green counters and 40 white counters.

The green counters are numbered **1** to **50**The white counters are numbered **1** to **40** 

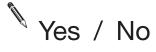
Holly picks one counter without looking.



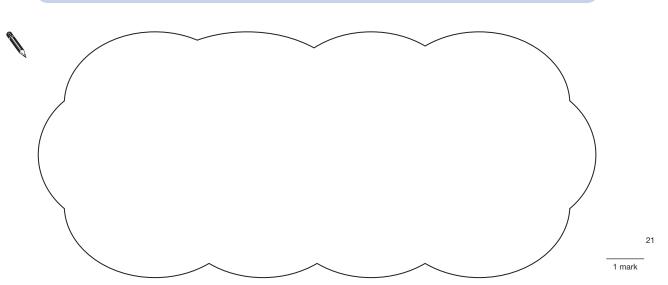
Holly says,

'A counter with the number 35 on it is more likely to be picked than a counter with the number 45 on it'.

Is Holly correct? Circle **Yes** or **No**.



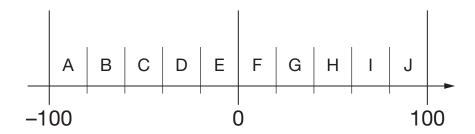
Explain how you know.





Here is part of a number line.

It is divided into equal sections.



Write the letter of the section where each of these numbers belongs.

The number 99 has been done for you.

number	section
99	J
29	
-83	
<b>–</b> 15	
44	

22i

2 marks





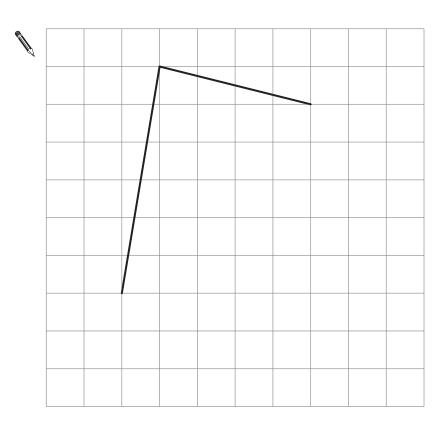


Here is a square grid.

Two sides of a kite are drawn on the grid.

Complete the kite by drawing the two missing sides.

Use a ruler.



22

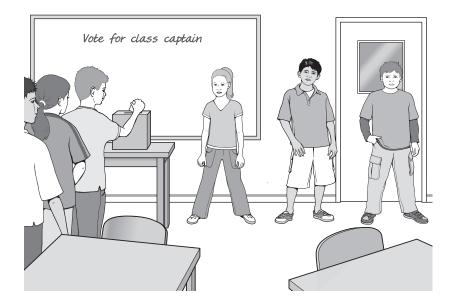
23

1 mark



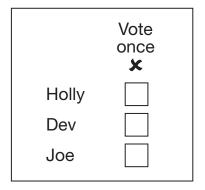






All the children in Class 6 vote to pick a class captain.

The choice is Holly or Dev or Joe.



Dev gets 10% of the votes.

Joe gets twice as many votes as Holly.

What percentage of the votes does the winner get?



1 mark

25

Here are some number cards.

9

10

11

12

13

**(** 

14

15

16

17

18

Joe picks two even numbers.

Dev picks two odd numbers.

Joe gives one of his cards to Dev.

Dev gives one of his cards to Joe.

Joe says,

'Now my cards are both square numbers'.

Dev says,

'Now my cards are both multiples of 5'.

What numbers did they each start with?

Joe started with

and

Dev started with

and

2 marks

25i

25ii



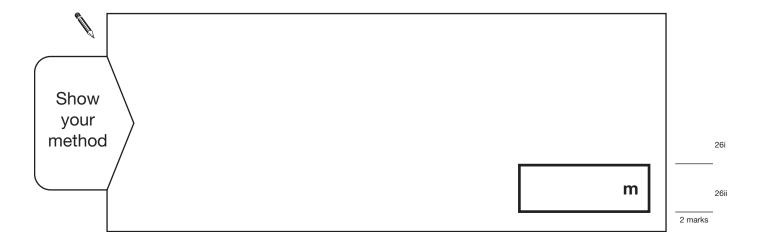




Holly makes a straight line of 5p coins worth £10



How long is Holly's line? Give your answer in **metres**.









End of test

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