Ma

KEY STAGE

LEVELS

Mathematics test

Test B Calculator allowed

First name	
Last name	
School	
DfE no.	



For marker's	use	only	
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Page	Marks
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25	
TOTAL	

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



Holly

Dev

Joe

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.





2

Here are six number cards.



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



2

Draw the line of symmetry on each diagram.

Use a ruler.

ß







3ii

3i

2 marks

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

One has been done for you.



This bar chart shows how heavy their pumpkins are.







5



Tickets for a school play cost £2.75 each.

Dev sold 23 tickets.

How much ticket money did Dev collect?

Ø	2	
		1 mark

6a

Holly collected £77 altogether from selling tickets.

How many tickets did she sell?	
	6b 1 mark



Here is part of a number line.



9

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



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

9

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

He recorded the results in a Venn diagram.











Dev's bag

Holly's bag

20p coins

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?







The numbers in this sequence increase by 5 each time.

5 10 15 20 ...

Both sequences continue.

15

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





17 Two 2-digit numbers multiply to make 176



17

Dev says,

18

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







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?



20a

1 mark

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



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**.

Yes / No

Explain how you know.



22

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		
-15		
44		

22i

22ii

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.



23



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?

23



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?







End of test