

KEY STAGE

LEVELS

Mathematics test

Test B Calculator allowed

First name	
Last name	
School	
DCSF no.	



For marker's use only

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

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



Sarah

Amy

Liam

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.



Join each of these calculations to the number that is **nearest** to the correct answer.

One has been done for you.



There are five entry gates at an open air concert.

This bar chart shows how many people went through each gate.





How many gates had **fewer than 150** people go through?



What's my number?



It is a three-digit number.

All the digits are odd.

The digits add up to 7

What could my number be?



3

4

1 mark

1 mark

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



3

This table shows the opening times of a pet clinic.

	Pet Clinic				
Monday	10am to 4:30pm				
Tuesday	10am to 4:30pm				
Wednesday	Closed all day				
Thursday	10:30am to 2:30pm				
Friday	1pm to 6:30pm				
Saturday	10am to 5:30pm				
Sunday	Closed all day				



These are some prices in a flower shop.



tulips £1.20 for a bunch

roses 40p each daffodils 55p for a bunch



Amy buys **one** bunch of tulips and **three** bunches of daffodils.





The contents of the packet are

- 5 red balloons
- 5 blue balloons
- 10 yellow balloons

Party Balloons

Sarah says,

'One-quarter of the balloons are red'.





8



Use all six digit cards to make three multiples of 3









3 multiple of 3

multiple of 3

multiple of 3

This table shows the four most popular names for baby girls born each year from 2004 to 2008.

	2004	2005	2006	2007	2008
1st	Emily	Jessica	Olivia	Grace	Olivia
2nd	Ellie	Emily	Grace	Ruby	Ruby
3rd	Jessica	Sophie	Jessica	Olivia	Grace
4th	Sophie	Olivia	Ruby	Emily	Emily

In how many years was Olivia in the top three most popular names?



1 mark

9a



1 mark







This scale shows the mass of the kitten when it was two months old.

) 5	00	600	700	800	900	1000	1100
gram	s						╧╧╧╢

What is the increase in mass? g 10

1 mark

These diagrams are all made of squares.

Look at each diagram.











Here is one side of a square drawn on a coordinate grid.



The square has a vertex at (6, 1).

Draw the other three sides of the square on the grid.

Use a ruler.

14

1 mark

15



Here are five shaded triangles on a square grid.



Write the letter of each triangle that has a **right angle**.



Write the letter of each triangle that has **two equal sides**.



This graph shows the outside temperature from 4pm to 10pm on a day in winter.



Here are the measure	ments:
Sarah and Amy	70kg
Sarah and Liam	80 kg
Liam and Amy	80 kg





Cubes have been stuck together to make this block.

The block has a pattern on two faces.



The block is turned to the position below.

Draw the missing parts of the pattern on it.



19i ______ 19ii

2 marks



20

21



20

1 mark

Here are four pairs of measurements.

For each pair, put a ring around the **larger** measurement.

One has been done for you.



21

1 mark

One has been done for you.

	less than 1000	equal to 1000	more than 1000
5 × 15 × 25			~
16 × (80.3 – 17.8)			
3888 ÷ (4.32 – 0.57)			
(32 – 5.7) × (32 + 5.7)			

22ii

22i

2 marks

k stands for a number.

Complete the number sentences below.

One has been done for you.



22

23

Here are two bags of marbles, **A** and **B**.

Each bag contains blue marbles and red marbles only.



3 blue marbles and 3 red marbles



6 blue marbles and 9 red marbles

^A / B

Liam chooses a marble from each bag without looking.



Circle **A** or **B**.

Explain how you know.



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