

National Curriculum Baseline Test



Mathematics

Paper 2: reasoning

First name				
Middle name				
Last name				
Date of Birth	Day	Month	Year	
School name				

[BLANK PAGE] Please do not write on this page.

Instructions

You **must not** use a calculator to answer any questions in this test.

Questions and answers

You have 40 minutes to complete this test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do working out, you can use the space around the question.

Image: Show your method Image: Im

Some questions have a method box like this:

For these questions, you may get a mark for showing your method.

If you cannot do a question, 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.

Marks

The number under each line at the side of the page tells you the maximum number of marks for each question.





Altogether, how many children **don't** like football?



1 mark

How many **more** children in Purple Class than in Yellow Class like football?



 Circle the number that is 10 times greater than three hundred and four.

 304
 3,040
 3,400
 3,004
 340

 1 mark

3

Write the missing numbers to make this **multiplication** grid correct.



This table shows the length of three rivers.

River	Length in metres
Amazon River	6,992
Congo River	4,700
River Thames	346

How much longer is the Amazon River than the combined length of the other two rivers?



2 marks

One row has been done for you.

Number	1,000 less
1,300	300
4,921	
	472
	29,645

2 marks

Write these numbers in order of size, starting with the **largest**.





At the start of January, there were 451 houses for sale in the estate agents.

During January–March,

- 146 houses were sold
- 329 more houses were put on the market.

How many houses were still for sale at the end of March?









11

Cooking time = 25 minutes plus an extra 30 minutes for each 500 grams

How many minutes will it take to cook a 2kg joint of beef?

minutes

1 mark

What is the mass of a joint of beef that takes 85 minutes to cook?

kg

Tick each shape that has double the amount of edges as faces.



2 marks



13



18 stickers 99p each Pack of 18 stickers £12.89

Sophie buys 18 single cards for 99p each.

Cameron buys a pack of 18 cards for £12.89.

How much more does Sophie pay than Cameron?





Sacha baked some cakes but didn't have enough icing for all of them.

For every 4 cakes Sacha baked, only 3 were iced.

Altogether, 18 cakes were iced.

How many cakes did Sacha **bake**?

1 mark

15

In a history book, the date of a battle is given in Roman numerals.

MLXVI

Write the year MLXVI in **figures**.





1 mark

Write the two missing values to make these equivalent fractions correct.



1 mark

17

The vertices of a pentagon have these coordinates.

(4,10) (10,8) (10,4) (6,0) (-2,6)

One side of the pentagon has been drawn on the grid.

Complete the pentagon.

Use a ruler.



1 mark

18

Circle	two number	s that add tog	jether to equa	al 0.43 .	
	0.40	0.25	0.03	0.20	

1 mark

20

There is a sale on in the furniture store. All sofas have a 20% off their original price. One sofa's original price is £850.

What is the sale price?



What is 3**p** - 4?



1 mark

4**n** - 3 = 93







22





Sam draws a picture of his house using a scale of 1cm to 5m. On the plan his garden is 7cm long.



24 In the right-angled triangle below, what is the size of the angle **z**?





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This test has been designed by our staff to help Explore Learning members prepare for the KS2 SATs, using questions similar to examples provided by the Standards and Testing Agency.

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