Spring Progress Check



# Mathematics

Paper 2: reasoning and problem solving

First name					
Middle name					
Last name					
Date of birth	Day	Month		Year	
Teacher		 <u>.</u>	·		

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# Instructions

You **may 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.

#### Some questions have a method box like this:



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

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**.

#### Marks

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









Thousands	Hundreds	Tens	Ones
1000 1000   1000 1000		10 10	

What is Sophie's number?



Sophie adds 40 to her number.

What is her new number?



Class 6 have some fruit.

For every 2 apples, they have 3 bananas.



They have 10 apples.

How many bananas do they have?



1 mark

4

The numbers in the sequence increase by the same amount each time.

Complete the missing numbers.



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2 marks





cm<sup>2</sup>



Four children take part in a throwing event.

Their distances are recorded in the table.

Name	Distance (metres)		
Jake	13.54		
Briony	21.54		
Rehan	20.69		
Tom	18.21		

What is the difference between the longest throw and the shortest throw?



1 mark

Write down the name of the child whose distance rounds to 21 metres to the nearest metre.







Laura thinks of a number.

She multiplies her number by 2 and then subtracts 6

Her answer is 4

What number was Laura thinking of at first?









1 mark

Amy says that 0.75 is smaller than  $\frac{7}{8}$ 

Explain why Amy is correct.





When 2 tins of beans are removed, the mass of the box is 5.1 kg.

What is the mass of one tin of beans?



1 mark





Martin is running in a race.

He runs  $\frac{2}{3}$  of the total distance of the race.

He has 18 km left to run.

#### What is the total distance of the race?



2 marks



Ingredients					
Sugar 150 g					
Butter 275 g					
Eggs2					
Flour 400 g					

#### How much more flour is used than sugar?



1 mark











1 mark

4p + 2 = 14

What is the value of p?

*p* =





Bag of 4 apples £1.32



How much cheaper is it to buy 12 apples in bags rather than 12 single apples?









1 mark

# **17** What is $\frac{3}{4}$ of 5 km?

Give your answer in metres.





Bilal and Charlie have some sweets.

Bilal has 4 times as many sweets as Charlie.

Bilal gives Charlie 15 of his sweets and now they have the same amount.

How many sweets do they have altogether?



2 marks

#### END OF TEST



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