Spring Progress Check

Year 5

Mathematics

Paper 2: reasoning and problem solving

First name				
Middle name				
Last name				
Date of birth	Day	Month	Year	
Teacher				

These assessments have been designed by White Rose Maths. For more information, please visit **www.whiterosemaths.com**



Instructions

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

Questions and answers

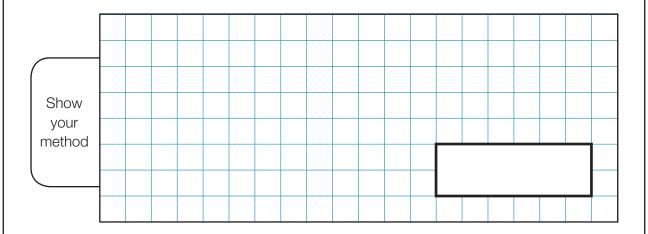
You have **35 minutes** to complete this test.

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.



1

Sam uses counters to represent a number.

Ones	Tenths	Hundredths
1 1	0.1 0.1 0.1	0.01

What is Sam's number?	
	 _
	1 mark
Sam adds 2 tenths to his number.	
What is Sam's new number?	



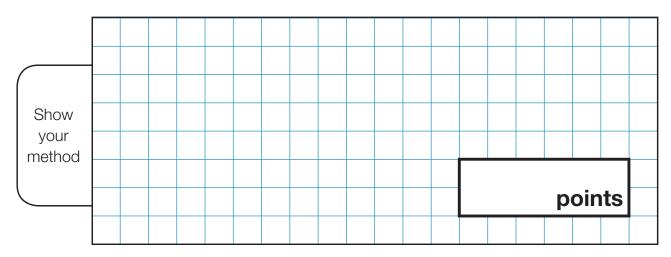
2

Two teams take part in a competition.

Team A has 352 points.

Team B has 78 fewer points than Team A.

How many points do Team B have?



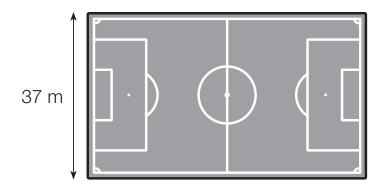
1 mark

3

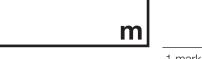
Raj completes this calculation.

Explain Raj's mistake.

The length of the football pitch is double the width.



What is the length of the football pitch?



1 mark

Calculate the perimeter of the football pitch.





Match each fraction to the correct diagram.

1 3

1/4

1 2



1 mark

6

Write these numbers in the correct position on the number line.

1/2

3 10

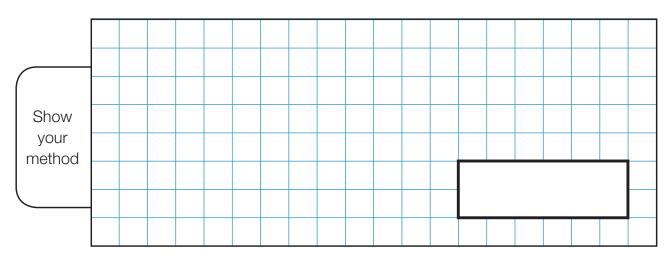


7

Mr Cook buys 72 drinking straws.

 $\frac{3}{8}$ of the straws are blue and the rest are red.

How many of the straws are **red**?



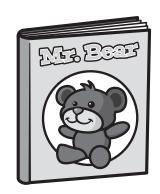
2 marks

8

Circle the fraction that is **not** equivalent to $\frac{3}{4}$

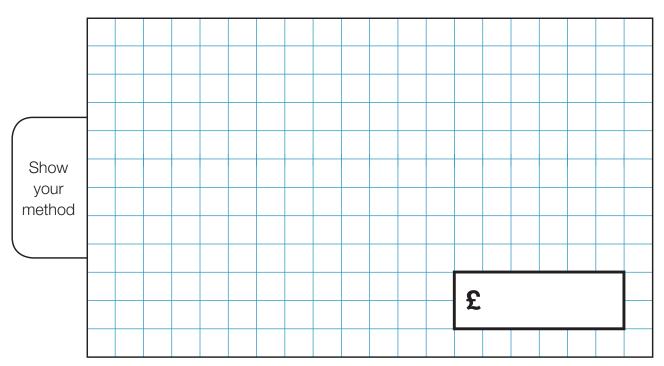
Books cost £1.50





Four children share the cost of a board game and 2 books.

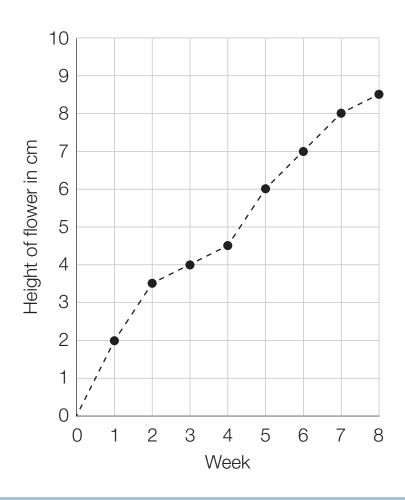
How much does each child pay?





The height of a flower is measured every week for 8 weeks.

The graph shows the height at the end of each week.



What is the height of the flower at the end of week 7?

cm

1 mark

How much does the height of the flower increase between the end of week 2 and the end of week 8?





Fraction	Decimal	Percentage
<u>4</u> 10	0.4	%
	0.51	51%
<u>3</u> 100		%

2 marks

Put the numbers in ascending order.

6.002 6.2

6.22

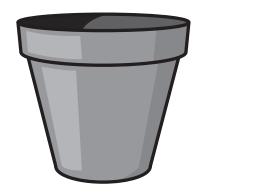
6.02







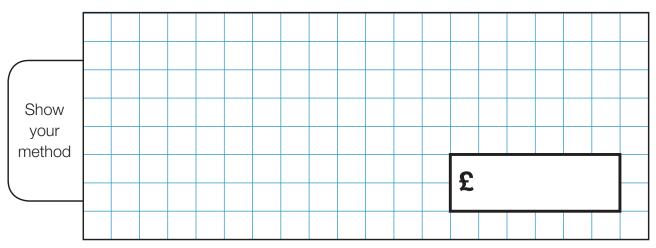
3 small plant pots cost £6





2 large plant pots and 6 small plant pots cost £21

What is the cost of 1 large plant pot?





Complete the calculation.

1 mark

15

Complete the statement.

$$6\frac{2}{5} = \frac{1}{5}$$

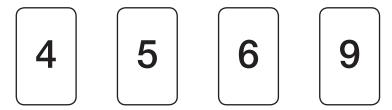
1 mark

16

This shape is divided into quarters.

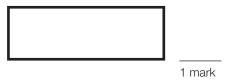
Shade in one eighth of the shape.





Use the cards to make a number that rounds to **6,000** to the nearest thousand.

You may only use each card once.



Now use the cards to make a number that rounds to **7,000** to the nearest hundred.

You may only use each card once.



The children in Class 5 vote for their end of term trip.

A quarter of the children vote to go to the cinema.

 $\frac{2}{5}$ of the children vote to go bowling.

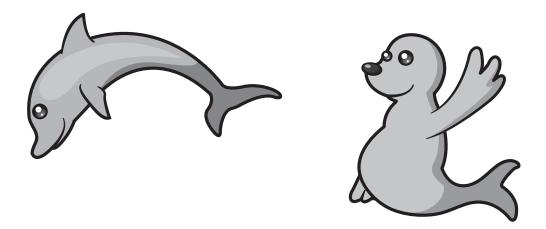
The rest of the children vote to go swimming.

What **percentage** of the children vote to go swimming?

%



The mass of a dolphin is a quarter of the mass of a seal.



The seal is 126 kg heavier than the dolphin.

What is the total mass of the dolphin and the seal?



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