





Mathematics

Higher: No calculator allowed Time allowed: 45 minutes

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

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Solve the equation.

$$400 + 300 + x = 6900$$

$$x = 2$$
I mark
Simplify these expressions.
$$p^2 + p^2 + p^2$$

$$1 mark$$

$$2ab + 7ab - ab$$

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2

3









I count on in equal steps. My third number is 28 and my fourth number is 33



What is my **first** number?

6



I count on in equal steps.

My first number is 6 and my fifth number is 16



What is my **fourth** number?









value than the expression 4n.



Here are two number lines.



Work out the values of A and B.





0.05, 10%, $\frac{15}{100}$, 0.2, 25%...

Write down the next term of the sequence, giving your answer as a fraction.



1 mark

The sequence continues.

How many terms in the sequence are less than 1?





The expression in each block is the sum of the expressions in the two blocks below it.



1 mark

If the value of the top block is 35, work out the value of m.





2 marks



10





Look at the equation.

$$c + 4 = 103$$

Use the equation to work out the value of c - 4



1 mark





Find the range of the cards.







Work out the value of the square.



3 marks



Each fraction on the left matches to a simplified fraction on the right.

Match each pair and complete the missing fraction.





15

24









3 marks



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These are the approximate populations of six of the biggest cities in the world.



What is the **median** of the populations of these cities?

1 mark

Write the population of Cairo in standard index form.









2 marks

1 mark

19	The wavelength of red light is 7×10^{-7} m.							
	Which of these is the wavelength of red light written as an ordinary number?							
	Circle your ansv	Circle your answer.						
	0.000 000 07	0.000 000 7	7 000 000	70 000 000				

END OF TEST

1 mark

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