Autumn Term Assessment



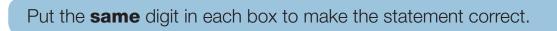
## Mathematics

## **Higher:** No calculator allowed Time allowed: 45 minutes

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

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





Solve the equation.  

$$400 + 300 + x = 6900$$

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

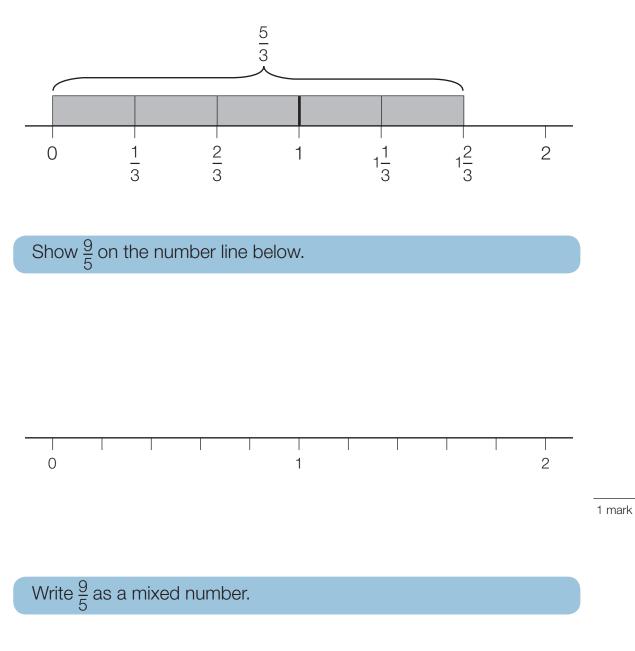
$$1 mark$$

$$2ab + 7ab - ab$$

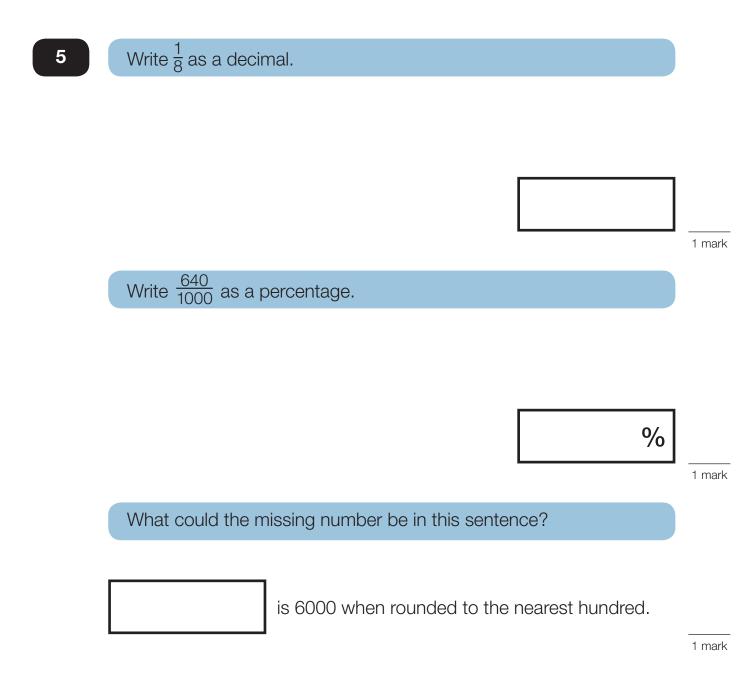
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2

3









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



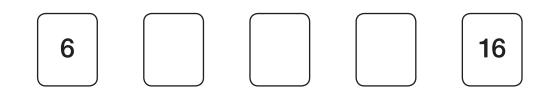
What is my **first** number?

6

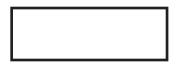


I count on in equal steps.

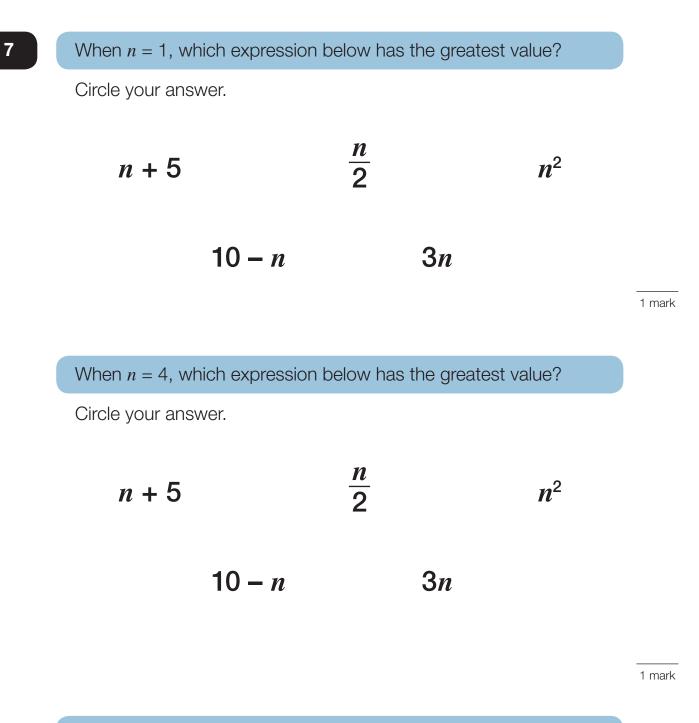
My first number is 6 and my fifth number is 16

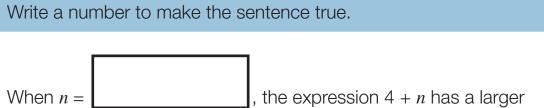


What is my **fourth** number?





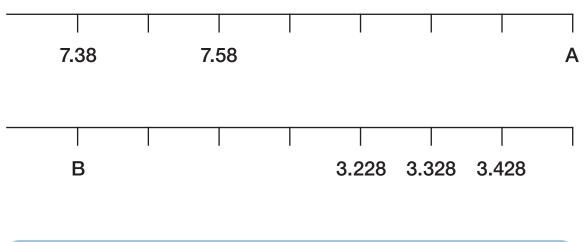




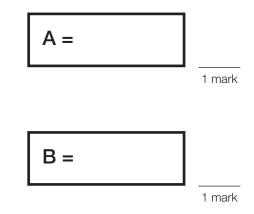
value than the expression 4n.



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.

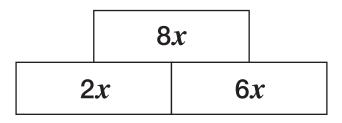


1 mark

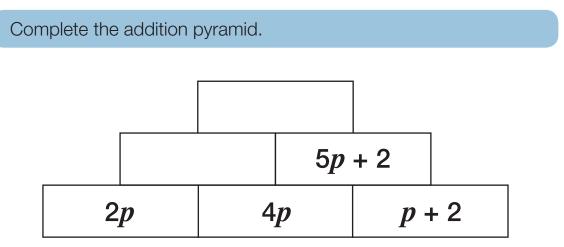
The sequence continues.

How many terms in the sequence are less than 1?



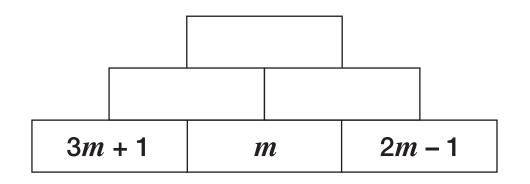


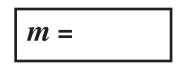
The expression in each block is the sum of the expressions in the two blocks below it.



1 mark

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

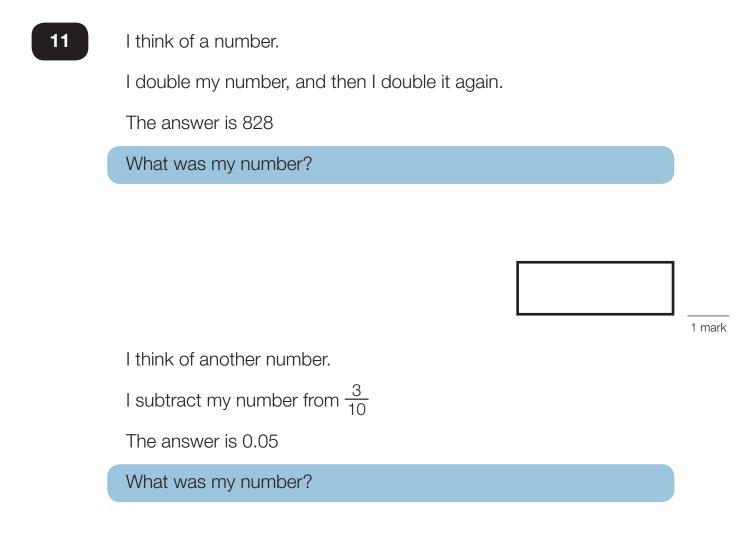




2 marks



10

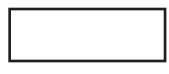




Look at the equation.

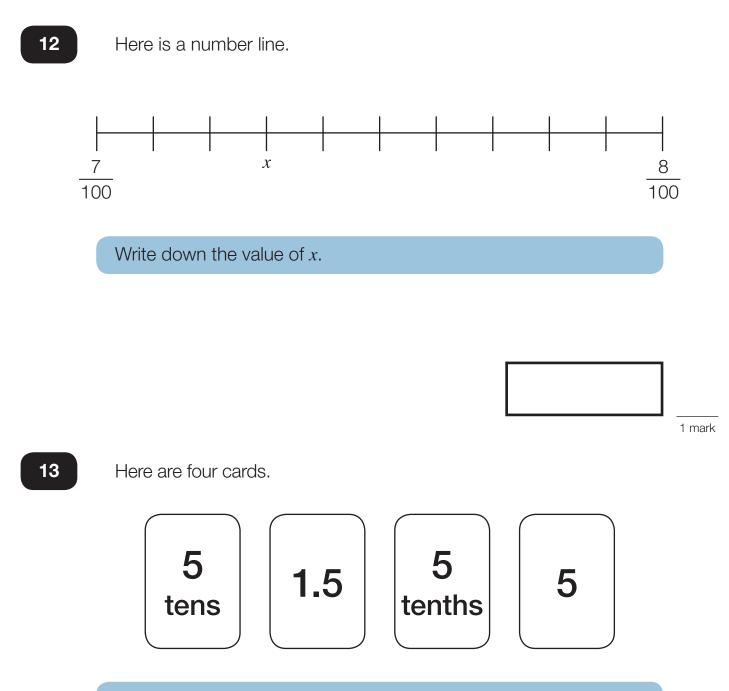
c + 4 = 103

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

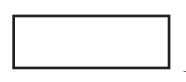


1 mark

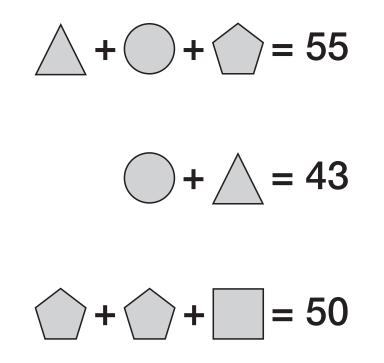




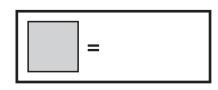
Find the range of the cards.







Work out the value of the square.

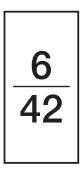


3 marks



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

Match each pair and complete the missing fraction.

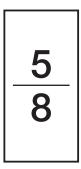


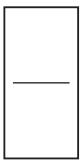


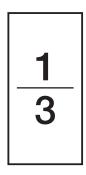
15

24





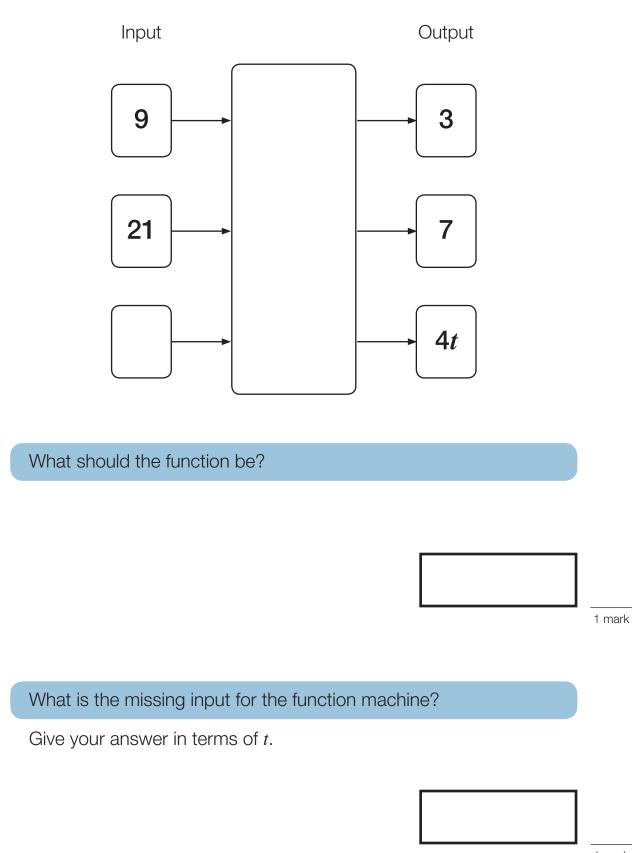




3 marks

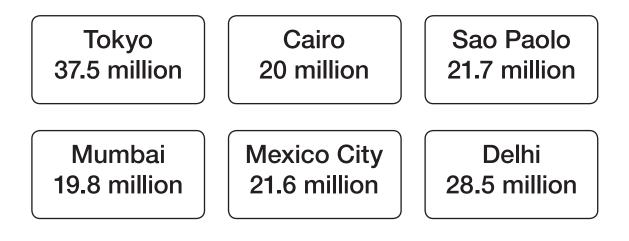


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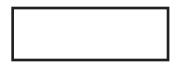
These are the approximate populations of six of the biggest cities in the world.



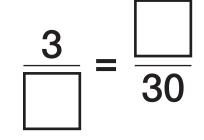
What is the **median** of the populations of these cities?

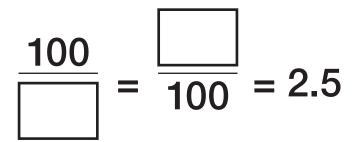
1 mark

Write the population of Cairo in standard index form.









2 marks

1 mark

19	The wavelength of red light is 7×10 <sup>-7</sup> m. Which of these is the wavelength of red light written as an ordinary number?							
	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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