













## A LITTLE BIT OF MATHS EVERY DAY ...

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY								
<h1>NOVEMBER '17</h1>		1 Write $2.71 \times 10^7$ as an ordinary number	2 If it takes 3 people 8 hours to complete a task, how long would it take 4 people to complete the same task?	3 Convert to a mixed number fraction $\frac{21}{5}$	4 84 can be written as $2^2 \times 3 \times 7$ . Use this information to help you:  a) write 168 as a product of its prime factors.  B) write $84^2$ using index notation	5								
6 What is the gradient and intercept of the line? $2y - 3x = 4$	7 Which of these is a geometric sequence and which is an arithmetic sequence: 1, 3, 9, 27 2, 5, 8, 11	8 Solve: $(x + 1)(x + 4) = (x - 2)(x - 3)$	9 Without a calculator work out $6511 \div 17$	10 Calculate $4\frac{5}{6} - 2\frac{1}{5}$	11 The pictogram shows the number of cars in a car park. The total number of cars is 260 .. How many cars were white?  <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding-right: 5px;"><i>Other</i></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"></td> </tr> <tr> <td style="padding-right: 5px;"><i>Red</i></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"></td> </tr> <tr> <td style="padding-right: 5px;"><i>White</i></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"></td> </tr> <tr> <td style="padding-right: 5px;"><i>Black</i></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"></td> </tr> </table>	<i>Other</i>		<i>Red</i>		<i>White</i>		<i>Black</i>		12
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13 Expand and simplify $3a^2b(5b + 3a) + 4ab^2(5a - 3b)$	14 Work out $24 - 3 \times 5 =$  $8 \times 4 \div 2 =$	15 By rounding estimate the answer to the below: $\frac{7.17 \times 36.41}{82.71 \div 19.4}$	16 A car costs £17,500 three years ago. The car depreciates at an average 7.5% per year. How much is the car worth now?	17 True or False? $a^8 \div a^4 = a^2$	18 5 pens and 3 pencils cost £1.50 6 pens and 5 pencils cost £2.15 How much does 1 pen cost and how much does 1 pencil cost?	19								
20 The $n$ th term of a sequence is given by $4n + 2$ . Explain why 21 is not a term in this sequence.	21 A bank is offering 2.4% simple interest or 2.3% compound interest. Which is the better rate if you invested £500 over 2 years?	22 Interior angles in a 9 sided polygon add up to ...?	23 Write each of the below to percentages: $\frac{3}{20}$ $\frac{28}{40}$	24 Ann, Bob and Cath share some money in the ratio 2:5:3 Cath gets £15 more than Ann ... how much did they share?	25 Rebecca uses the digits 5, 4, 7 and 2 to make 4-digit numbers.  How many different 4-digit numbers can she make that are greater than 7000?	26								
27 Write an expression for the perimeter of a rectangle with width $3x + 4$ and length $4y$	28 Give your answer in standard form $\frac{1.2 \times 10^7}{4 \times 10^4}$	29 Calculate: $\frac{2}{7} \times \frac{7}{22}$	30 The exterior angles for an octagon add up to ...?	<h2>REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"!</h2>										