A LITTLE BIT OF MATHS EVERY DAY ...

Monday	TUESDAY	WEDNESDAY	THURSDAY	Friday	Saturday Sunday
1 What is the nth term for the sequence? 3 8 13 18 Sn-2	Work out the value $\int \frac{of}{3 \times lo^{-3}}$ $(3 \times 10^{5}) \div (6 \times 10^{7})$	Calculate: $2\frac{3}{4} \times 3\frac{1}{5}\frac{8\frac{4}{5}}{5}$	Find three numbers which have a mean of 8, a range of 8 and the median is 10. 3 , 10,11	5 Write 5.67 x 10 ⁻⁴ as an ordinary number. 0 · 000 567	6 I 2A I 22 I 22 A 7 Given three triangles A, B and C. = 1 44 A The area of triangle B is 20% greater than the area of triangle A. The area of triangle C is 20% greater than the area of triangle B. By what percentage is the area of triangle C greater than the area of triangle A? 44 %
8 Factorise fully x ² y ² + 3x ² y x ² y(y + 3) x ² - 196 (کت + ۱3)(کت - 13)	0:16 9 A large bottle, 800ml, of shampoo costs £1.28 300ml, costs £1.28 A small bottle 300ml, costs 45p 0 15 Which bottle of shampoo offers the better value?	12042 10 Work out twelve 10 thousand and forty 10 two minus six hundred 10 and eighty seven. 68 11,355	11 Ann and Billy divide £350 in the ratio 2 : 5 Work out how much each person gets. A 6 100 250	Simplify fully $\frac{m^{-0.5} \times m^{-5}}{m^{-4}}$	$ \begin{pmatrix} \mathbf{t} \\ \mathbf{t} \end{pmatrix} \longrightarrow \begin{bmatrix} \text{Calculate:} \\ (i) 3a \\ (ii) 2a + 3b \end{pmatrix} \begin{pmatrix} \mathbf{t} & \mathbf{t} \\ \mathbf{t} \\ \mathbf{t} \end{bmatrix} $ $ a = \begin{bmatrix} 2 \\ 3 \end{bmatrix} \text{ and } b = \begin{bmatrix} -3 \\ 0 \end{bmatrix} $
Solve: 4x + 3 = 12 43c = 9 $3c = \frac{9}{4} = 2\frac{1}{4}$	16 Write 5 000 100 in standard form? 5 • ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲	1.035 17 I invest £2000 in account that pays compound interest of 3.5% per annum. How much will be in the account in 3 years? € 2217.44	18 Write 525 as a product of its prime factors ع د ۲ ² ۲	19 Solve: 4x + 3 = 7 - x +x -3 -3 +x 5x = 4 x = 4 = 0.8	w 20 21 0.62 = 62% = 3x62=186 45 I am going to play 300 games of noughts and crosses The probability of that I win a game is 0.62 I will lose 45 games. How many games are likely to result in a draw? 300 - 231 = 69
22 What is the length of the line segment between (2,3) and (5,7)? 5 سیتھ	23 It takes 12 men 5 days to build a wall - how many days it would take 3 men to build the same wall?	Calculate.	25 Expand and simplify (3x + 4)(4x - 4) 12x ² + 14x - 16 4y(2x + 3y) 8xy + 12y ²	26 A number "x", is rounded to 120 correct to 2 significant figures. What is the error interval of x? 115 \$ 32 \$ 125	2728288 chocolates are put into three boxes.The chocolates are put into a small box, a medium box and a large box in the ratio 1: 3: 8Work out the number of chocolates in each box.288 ÷ 12 ÷ 24S244245245246<
 O · 88 A car costs £13 995. Assuming that the rate of depreciation 12% per annum, how much is the car worth in 3 years time? €9537·20 	30 Give one reason why o is an even number. even side of it on the number line is -i and i, and thing one odd numbers.	31 In a sale, normal prices are reduced by 30%. The price of a designer handbag is reduced by £36.		MAY	2017

REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"!