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	**2** Work out the value of $(3 \times 10^5) \div (6 \times 10^7)$	**3** Calculate: $2\frac{3}{4} \times 3\frac{1}{5}$	**4** Find three numbers which have a mean of 8, a range of 8 and the median is 10.	**5** Write 5.67 x 10⁻⁴ as an ordinary number.	**6** Given three triangles A, B and C. 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?	**7**
8 Factorise fully $x^2y^2 + 3x^2y$ $x^2 - 196$	**9** A large bottle, 800ml, of shampoo costs £1.28 A small bottle, 300ml, costs 45p Which bottle of shampoo offers the better value?	**10** Work out twelve thousand and forty two minus six hundred and eighty seven.	**11** Ann and Billy divide £350 in the ratio 2 : 5 Work out how much each person gets.	**12** Simplify fully $\dfrac{m^{-0.5} \times m^{-5}}{m^{-4}}$	**13** Calculate: (i) 3**a** (ii) 2**a** + 3**b** $\mathbf{a} = \begin{bmatrix} 2 \\ 3 \end{bmatrix}$ and $\mathbf{b} = \begin{bmatrix} -3 \\ 0 \end{bmatrix}$	**14**
15 Solve: 4x + 3 = 12	**16** Write 5 000 100 in standard form?	**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?	**18** Write 525 as a product of its prime factors	**19** Solve: 4x + 3 = 7 − x	**20** 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?	**21**
22 What is the length of the line segment between (2,3) and (5,7)?	**23** It takes 12 men 5 days to build a wall - how many days it would take 3 men to build the same wall?	**24** Calculate: $2\frac{3}{4} + 3\frac{1}{5}$	**25** Expand and simplify (3x + 4)(4x - 4) 4y(2x + 3y)	**26** A number "x", is rounded to 120 correct to 2 significant figures. What is the error interval of x?	**27** 288 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 : 8 Work out the number of chocolates in each box.	**28**
29 A car costs £13 995. Assuming that the rate of depreciation 12% per annum, how much is the car worth in 3 years time?	**30** Give one reason why 0 is an even number.	**31** In a sale, normal prices are reduced by 30%. The price of a designer handbag is reduced by £36. Work out the sale price of the bag.			**MAY 2017**	

REMEMBER: The best way to revise maths is to "do Maths"!