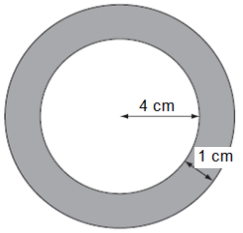
A LITTLE BIT OF MATHS EVERY DAY ... (CROSSOVER)

JUNE 2019

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
				1 Find the product of the sixth prime number and the third triangular number.	2 A box is on a table. The area of the box in contact with the table is $1500\ cm^2$. The pressure on the table is 28 newtons/m^2. Work out the force exerted by the box on the table.	3
4 Factorise fully $15xy^2 + 27x^2y + 9xy$ $x^2 - 169$	5 Work out the value of $(3 \times 10^{-5}) \div (6 \times 10^{7})$	6 Round 0.000608765 to three significant figures	7 Town B is on bearing of 065° from Town A. What is the bearing of Town A from Town B?	8 Simplify fully $\frac{m^2 \times m^{-5}}{m^{-3}}$	9 Work out the shaded area 	10
11 What is the size of an interior angle of a pentagon?	12 Solve $4x - 7 = 21$	13 I invest £1200 in an account that pays compound interest of 1.5% per annum. How much interest will I earn in 3 years?	14 Write 185 as a product of its prime factors	15 Factorise $x^2 - 7x + 12$	16 The total cost of 3 pens and 4 pencils is £1.84 The total cost of 5 pens and 2 pencils is £1.76 Work out the cost of one pen and the cost of one pencil.	17
18 Change $4.2m^2$ into mm^2	19 What is the lowest common multiple of 8, 12 and 15?	20 Calculate: $\frac{2}{5} + \frac{3}{8}$	21 Expand and simplify $(2x - y)(3x + 2y)$ $3y^2(2x - 3)$	22 A number "x", is rounded to 9.5 correct to 2 significant figures. What is the error interval of x?	23 There are a total of 120 counters in a box. There are three times as many red counters as blue counters. Vicky takes one third of the red counters from the box. Oliver takes 80% of the blue counters from the box. Work out the ratio of the number of red counters to the number of blue counters now in the box.	24
25 Simplify $4(x + 3) - 2(x - 2)$	26 Find the median: 12, 14, 11, 9, 13, 15, 17, 10, 12	27 What is the surface area of a cube with side length 3cm?	28 A water container has 19.5 litres of water in it. A cup holds 210 ml of water. How many cups of water can be filled from the water container?	29 Is 150 a term in the sequence? $n^2 + 3$.	30 Find the mean 12, 14, 11, 9, 13, 15, 17, 10, 12 	**REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"!**