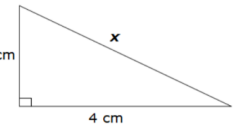
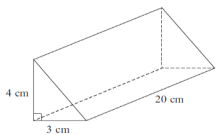
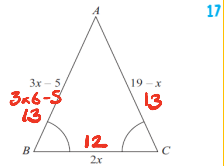
A LITTLE BIT OF MATHS EVERY DAY ...

APRIL 2016

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
				1 Work out: $\frac{2}{5} \times \frac{1}{3}$ $\frac{2}{15}$	2 Calculate x 3^2+4^2 $9+16=25$ $x=\sqrt{25}=5cm$	3 
4 Share 200 in the ratio 3:2 $200 \div 5 = 40$ 120 : 80	5 Design a questionnaire to find out how much exercise people do . How much exercise a week do you do? none 1-2 hours 3-4 hours 5-6 hours 7+	6 Simplify $4y+2x-3+3x+8$ $4y+5x+5$	7 Work out 70% of 120 $10\% = 12$ $70\% = 12 \times 7$ $= 84$	8 Work out 137 x 29 without a calculator	9 What is the volume of the prism? $\frac{1}{2}(4\times3) \times 20$ 6×20 $120cm^3$	10 
11 Simplify $(2a^3)^3$ $2^3a^9 = 8a^9$	12 Write 3.87×10^{-4} as an ordinary number 0·000387	13 Mel got 32 out of 80 on her maths exam. Write this as a percentage $\frac{32}{80} = \frac{4}{10} = 40\%$	14 Simplify $\frac{m^2 \times m^5}{m^3}$ $\frac{m^7}{m3}$ $= m^4$	15 Expand (x + 2)(x – 3) $x^2-3x+2x-6$ x^2-x-6	16 Work out the perimeter of the triangle $3x-5 = 19-x$ $4x = 24$ $x = 6$ Perimeter = 38	17 
18 Work out 30% off £19 10% = £1·90 30% = £5·70 £19·00 £5·70 £13·30	19 Work out a) 0.4 x 0.8 0·32 b) 0.3 x 0.2 0·06	20 Work out 148 x 11 without a calculator = 1628	21 What is the median of these numbers? 3 12 9 17 3 15 13 13 8 5 3, 3, 5, 8, 9, 12, 13, 13, 15, 17 10·5	22 Write 3.45×10^4 as an ordinary number 34500	23 At the end of 10 basketball games. their mean score for a team is 35 points per game. TOTAL = 350 At the end of 11 games. their mean score has gone down to 33 points per game. TOTAL = 363 How many points did the team score in the 11th game? = 13 points	24
25 Factorise $4yx^3 - y^2x^2$ $yx^2(4x-y)$	26 Calculate $9\times10^4\times3\times10^3$ Give your answer in standard form. 27×10^7 2.7×10^8	27 Write 1104 as a product of its prime factors. $2^4 \times 3 \times 23$	28 Evaluate $3^3 + 5^2$ $27 + 25 = 52$	29 Simplify $(a^5)^{-2}$ a^{-10}	30 Share 42 in the ratio 4:3 24 : 18	**REMEMBER: THE BEST WAY TO REVISE MATHS IS "TO DO" MATHS!**