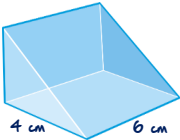
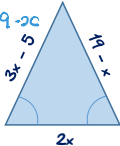
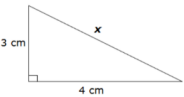


# AUGUST ... A LITTLE BIT OF MATHS EVERY DAY

1 Share 200 in the ratio 3:2 120 : 80	2 Work out $0.3 \times 0.2$ 0.06	3 Simplify $4y + 2x - 3 + 3x + 8$ $5x + 4y + 5$	4 Work out 70% of 120 84	5 Work out $137 \times 29$ without a calculator 3973	6 What is the volume of the prism? $36\text{cm}^2$ 	7
8 Simplify $(2a^3)^3$ $8a^9$	9 Work out the perimeter of the triangle $13 + 13 + 12 = 38$ 	10 Simplify $\frac{m^2 \times m^5}{m^3}$ $m^4$	11 Expand $(x + 2)(x - 3)$ $x^2 - x - 6$	12 Write $3.87 \times 10^{-4}$ as an ordinary number 0.000387	13 Mel got 32 out of 80 on her maths exam. Write this as a percentage 40%	14
15 Work out 30% off £19 £13.30	16 Work out a) $0.4 \times 0.8$ 0.32 b) $0.3 \times 0.05$ 0.015	17 Work out $148 \times 11$ without a calculator 1628	18 What is the median of these numbers? 3 12 9 17 3 15 13 13 8 5 10.5	19 At the end of 10 basketball games, a team's mean score is 35 points per game. 350 At the end of 11 games, their mean score has gone down to 33 points per game. 363 How many points did the team score in the 11th game? 13	20 Write $3.45 \times 10^4$ as an ordinary number 34,500	21
22 Factorise $4yx^3 - y^2x^2$ $yx^2(2x - y)$	23 Calculate $9 \times 10^4 \times 3 \times 10^3$ Give your answer in standard form. $2.7 \times 10^8$	24 Write 1104 as a product of its prime factors. $2^4 \times 3 \times 23$	25 Evaluate $3^3 + 5^2$ 52	26 Simplify $(a^5)^{-2}$ $a^{-10}$	27 Simplify the ratio $22 : 14$ $11 : 7$	28 Calculate $994 \div 7$ 142
29 Work out: $\frac{2}{5} \times \frac{1}{3} = \frac{2}{15}$	30 Calculate the value of x 5cm 	31	<b>REMEMBER: THE BEST WAY TO REVISE MATHS IS "TO DO" MATHS!</b>			