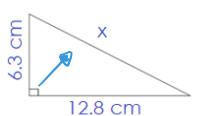
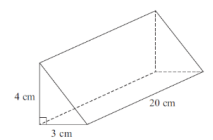


APRIL ... A LITTLE BIT OF MATHS EVERY DAY

JustMaths

1 Work out: $\frac{2}{5} \times \frac{1}{3} = \frac{2}{15}$	2 Share 200 in the ratio 3:2 120 : 80	3 Work out (without a calculator) 125.2×49 6134.8	4 Simplify $4y + 2x - 3 + 3x + 8$ $5x + 4y + 5$	5 Work out 70% of 120 84	6 Simplify $(2a^3)^3$ $8a^9$	7 Write 4.78×10^{-3} as an ordinary number 0.00478
8 I buy a "thing" in a sale that has been reduced by 15%. The sale price is £102. What was the original price? £120	9 Write 3.87×10^{-4} as an ordinary number 0.000387	10 Mel got 32 out of 80 on her maths exam. Write this as a percentage 40%	11 Simplify $\frac{8m^2 \times m^5}{4m^3} = 2m^4$	12 Expand $(x + 2)(x - 3)$ $x^2 - x - 6$	13 Calculate $9 \times 10^4 \times 3 \times 10^3$ Give your answer in standard form. 2.7×10^6	14 Write 1104 as a product of its prime factors. $2^4 \times 3 \times 23$
15 Work out 30% off £19 £13.30	16 Work out a) 0.4×0.8 b) 0.3×0.2 a) 0.32 b) 0.06	17 Work out 148×11 without a calculator 1628	18 What is the median of these numbers? 3 12 9 19 3 14 13 13 8 5 10.5	19 Write 3.45×10^4 as an ordinary number 34500	20 A "thing" increases from £40 to £120. What is the percentage increase? £80 increase = 200%	21
22 Factorise $4yx^3 - y^2x^2$ $yx^2(4x - y)$	23 Calculate x $\sqrt{6.3^2 + 12.8^2}$ 14.27 cm (2 d.p.) 	24	25 Evaluate $3^3 + 5^2$ 52	26 Simplify $(a^5)^{-2}$ a^{-10}	27 What is the volume of the prism? 120cm^3 	28
29 What is the circumference of a circle with radius 5cm? D = 10cm C = $\pi \times 10 = 10\pi = 31.4\text{cm}$	30 What is the midpoint between (2,7) and (10,13)? (6, 10)	31 What is? $\frac{3}{25}$ of 50 = 6	REMEMBER: The best way to revise maths is to "do Maths"!			