
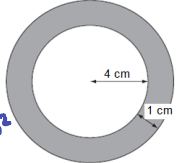





A LITTLE BIT OF MATHS EVERY DAY ... (CROSSOVER)

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
 <h1 style="font-size: 4em; color: yellow;">JUNE 2019</h1>						
<p>Factorise fully</p> $15xy^2 + 27x^2y + 9xy$ $3xy(5y + 9x + 3)$ $(x+13)(x-13)$	<p>Work out the value of</p> $(3 \times 10^5) \div (6 \times 10^7)$ 5×10^{-13}	<p>Round 0.000608765 to three significant figures</p> 0.000609	<p>Town B is on bearing of 065° from Town A. What is the bearing of Town A from Town B?</p> 245°	<p>Find the product of the sixth prime number and the third triangular number.</p> $13 \times 6 = 78$	<p>1 $p = \frac{F}{A}$</p> <p>2 A box is on a table. $28 \text{ N/m}^2 = 0.0028 \text{ N/cm}^2$</p> <p>3 The area of the box in contact with the table is 1500 cm^2. The pressure on the table is $28 \text{ newtons/m}^2 \leftarrow 400 \text{ units!}$</p> $0.0028 \times 1500 = 4.2 \text{ N}$ <p>Work out the force exerted by the box on the table.</p>	<p>Work out the shaded area</p>  $\pi \times 4^2 - \pi \times 1^2 = 9\pi = 28.27 \text{ cm}^2$ <p>(2dp)</p>
<p>What is the size of an interior angle of a pentagon? (Ssides)</p> 108°	<p>Solve</p> $4x - 7 = 21$ $4x = 28$ $x = 7$	<p>I invest £1200 in an account that pays compound interest of 1.5% per annum. How much interest will I earn in 3 years?</p> $£54.81$	<p>Write 185 as a product of its prime factors</p> 5×37	<p>Factorise</p> $x^2 - 7x + 12 = (x-3)(x-4)$	<p>The total cost of 3 pens and 4 pencils is £1.84</p> <p>The total cost of 5 pens and 2 pencils is £1.76</p> <p>Pen = 24p Pencil = 28p</p> <p>Work out the cost of one pen and the cost of one pencil.</p>	
<p>Change 4.2 m^2 into mm^2</p>  $1000 \times 4.200 = 4,200,000 \text{ mm}^2$	<p>What is the lowest common multiple of 8, 12 and 15?</p> 120	<p>Calculate:</p> $\frac{2}{5} + \frac{3}{8} = \frac{31}{40}$	<p>Expand and Simplify</p> $(2x-y)(3x+2y)$ $6x^2 + 2xy - 2y^2$ $3y^2(2x-3)$ $6xy^2 - 9y^2$	<p>A number "x", is rounded to 9.5 correct to 2 significant figures.</p> <p>What is the error interval of x?</p> $9.45 \leq x < 9.55$	<p>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.</p> <p>Work out the ratio of the number of red counters to the number of blue counters now in the box.</p> $R : B = 6 : 6 \text{ or } 10 : 1$	
<p>Simplify</p> $4(x+3) - 2(x-2)$ $4x + 12 - 2x + 4 = 2x + 16$	<p>Find the median:</p> <p>12, 14, 11, 9, 13, 15, 17, 10, 12</p> <p>9 10 11 12 13 14 15 17</p> 12	<p>What is the surface area of a cube with side length 3cm?</p>  $9 \times 6 = 54 \text{ cm}^2$	<p>A water container has 19.5 litres of water in it. 19500 A cup holds 210 ml of water. How many cups of water can be filled from the water container?</p> $92.857 \dots \approx 92$	<p>Is 150 a term in the sequence?</p> $n^2 + 3$ $150 = n^2 + 3$ $n^2 = 147$ $n = \sqrt{147} = 12.12 \dots$ <p>No!</p>	<p>Find the mean</p> <p>12, 14, 11, 9, 13, 15, 17, 10, 12</p> $112 \div 9 = 12.4$ 	
						<p>REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"!</p>