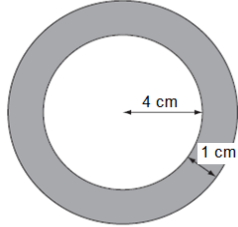


A LITTLE BIT OF MATHS EVERY DAY ...

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
<h1>JUNE 2017</h1>			<p style="text-align: right; color: blue;">1</p> <p>A square has a side length of 8.2cm. What is the length of a diagonal of the square?</p>	<p style="text-align: right; color: blue;">2</p> <p>Find the product of the sixth prime number and the third triangular number.</p>	<p style="text-align: right; color: blue;">3</p> <p style="text-align: center;">A box is on a table.</p> <p>The area of the box in contact with the table is 1500 cm². The pressure on the table is 28 newtons/m².</p> <p>Work out the force exerted by the box on the table.</p>	<p style="text-align: right; color: blue;">4</p>
<p style="text-align: right; color: blue;">5</p> <p>Factorise fully $15xy^2 + 27x^2y + 9xy$</p> <p style="text-align: center;">$x^2 - 169$</p>	<p style="text-align: right; color: blue;">6</p> <p>Work out the value of $(3 \times 10^{-5}) \div (6 \times 10^7)$</p>	<p style="text-align: right; color: blue;">7</p> <p>Round 0.000608765 to three significant figures</p>	<p style="text-align: right; color: blue;">8</p> <p>Town B is on bearing of 065° from Town A. What is the bearing of Town A from Town B?</p>	<p style="text-align: right; color: blue;">9</p> <p>Simplify fully</p> $\frac{m^2 \times m^{-5}}{m^{-3}}$	<p style="text-align: right; color: blue;">11</p> <p>Work out the shaded area</p> 	<p style="text-align: right; color: blue;">11</p>
<p style="text-align: right; color: blue;">12</p> <p>What is the interior angle of a pentagon?</p>	<p style="text-align: right; color: blue;">13</p> <p>Solve $4x - 7 = 21$</p>	<p style="text-align: right; color: blue;">14</p> <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>	<p style="text-align: right; color: blue;">15</p> <p>Write 185 as a product of its prime factors</p>	<p style="text-align: right; color: blue;">16</p> <p>Factorise $x^2 - 7x + 12$</p>	<p style="text-align: right; color: blue;">17</p> <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>Work out the cost of one pen and the cost of one pencil.</p>	<p style="text-align: right; color: blue;">18</p>
<p style="text-align: right; color: blue;">19</p> <p>Change 4.2m² into mm²</p>	<p style="text-align: right; color: blue;">20</p> <p>What is the lowest common multiple of 8, 12 and 15?</p>	<p style="text-align: right; color: blue;">21</p> <p>Calculate:</p> $\frac{2}{5} + \frac{3}{8}$	<p style="text-align: right; color: blue;">22</p> <p>Expand and simplify $(2x - y)(3x + 2y)$</p> <p style="text-align: center;">$3y^2(2x - 3)$</p>	<p style="text-align: right; color: blue;">23</p> <p>A number "x", is rounded to 9.5 correct to 2 significant figures. What is the error interval of x?</p>	<p style="text-align: right; color: blue;">24</p> <p style="text-align: center;">There are a total of 120 counters in a box.</p> <p>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>	<p style="text-align: right; color: blue;">25</p>
<p style="text-align: right; color: blue;">26</p> <p>Simplify $4(x + 3) - 2(x - 2)$</p>	<p style="text-align: right; color: blue;">27</p> <p>Find the median: 12, 14, 11, 9, 13, 15, 17, 10, 12</p>	<p style="text-align: right; color: blue;">28</p> <p>What is the surface area of a cube with side length 3cm?</p>	<p style="text-align: right; color: blue;">29</p> <p>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?</p>	<p style="text-align: right; color: blue;">30</p> <p>Is 150 a term in the sequence? $n^2 + 3$.</p>	<p>REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"!</p>	