

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
<h1>OCTOBER 2016</h1>					<p style="text-align: center;">1 2</p> <p>I am thinking of 4 numbers that are different factors of 80. I add these numbers together and get a number that is greater than 20 but less than 35. What were the 4 numbers I was thinking of?</p> <p><i>These are multiple choice answers to this</i></p> <p><u>15</u> + <u>1</u> + <u>2</u> + <u>3</u> between 21 and 34</p> <p>1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 40</p>	
<p>3</p> <p>Write these in order of size 0.74 0.744 0.704 0.7 0.07 0.07, 0.7, 0.704, 0.740, 0.744</p>	<p>4</p> <p>Simplify <math>5x \times 2 \times x</math> <math>S \times 2 \times F \times g</math> <math>= 10fg</math></p>	<p>5</p> <p>Solve <math>6x - 5 = 16</math></p> $6x = 21$ $x = \frac{21}{6} = \frac{7}{2}$ $x = \underline{3.5}$	<p>6</p> <p>Calculate <math>4.6 \times 10^2 + 3.2 \times 10^3</math></p> $\frac{460}{3660} \quad 366 \times 10^3$	<p>7</p> <p>Factorise <math>3x^3y^4 - 18y^2</math> <math>3y^2(x^3y^2 - 6)</math></p>	<p>8 9</p> <p>A machine makes 36 trophies every hour. The machine makes trophies for 8 hours each day, on 5 days of the week = <math>36 \times 8 \times 5 = 1440</math> a week The trophies are packed into boxes that each holds 8 trophies. How many boxes are needed for all the trophies made each week? <math>1440 \div 8 = 180</math> boxes</p>	
<p>10</p> <p>Write 0.00011 in standard form <math>1.11 \times 10^{-4}</math></p>	<p>11</p> <p>Write 28 as a product of prime factors <math>28 = 2 \times 2 \times 7</math> <math>2^2 \times 7</math></p>	<p>12</p> <p><math>t</math> is a whole number. Write down the largest value of <math>t</math> that satisfies <math>3t + 1 &lt; t + 12</math></p> $2t < 11$ $t < 5.5$	<p>13</p> <p>Calculate <math>19876 - 6789</math></p> $\begin{array}{r} 19876 \\ -6789 \\ \hline 13087 \end{array}$	<p>14</p> <p>Expand and simplify <math>3(t - 4) - 2(4t - 1)</math> <math>3t - 14 - 8t + 2</math> <math>-5t - 12</math></p>	<p>15 16</p> <p>Calculate <math>x</math></p> $\frac{53}{143} - \frac{180}{37}$ $\frac{676}{39} - \frac{37}{39}$ <p><math>x = 39^\circ</math></p>	
<p>17</p> <p>Simplify <math>4a^2 + 2a^2 - 3a^2 + 4</math> <math>3a^2 + 4</math></p>	<p>18</p> <p>Make <math>v</math> the subject of the formula <math>v = u + at</math> <math>u = v - at</math></p>	<p>19</p> <p>Emma walks for 6 hours and covers 15 miles. 2.5 mph What is her average speed?</p>	<p>20</p> <p>Write 0.016 as a fraction <math>\frac{16}{1000} \text{ or } \frac{8}{500} \text{ or } \frac{4}{250} \text{ or } \frac{2}{125}</math></p>	<p>21</p> <p>Which is the smallest number: <math>0.038 \times 10^2</math> or <math>380 \times 10^{-3}</math> <math>3.8 \quad 0.38</math> <math>380 \times 10^{-5}</math></p>	<p>22 23</p> <p>Work out the shaded area. Large <math>\odot = \frac{1}{4} \pi \times 10^2 = 25\pi</math> Small <math>\odot = \frac{1}{4} \pi \times 5^2 = 12.5\pi</math> area = <math>25\pi - 12.5\pi = 12.5\pi = 39.27 \text{ cm}^2</math> (2dp)</p>	
<p>24</p> <p>Expand &amp; simplify <math>(x + 2)(x + 4)</math> <math>x^2 + 6x + 8</math></p>	<p>25</p> <p>Simplify <math>\frac{(x+2)^2}{x+2} = x+2</math></p>	<p>26</p> <p>Calculate: <math>\frac{1}{7} + \frac{3}{4}</math> <math>\frac{4}{28} + \frac{21}{28}</math> <math>\frac{25}{28}</math></p>	<p>27</p> <p>The ratio of red counters to blue counters is 5:9 What fraction of the counters are red? <math>\frac{5}{14}</math></p>	<p>28</p> <p>Work out <math>5.6 \times 0.24</math> <math>1.344</math></p>	<p>29 30</p> <p>Three students count their pencils. Al has <math>x</math> pencils. Ben has 48 more pencils than Al. Connor has four times as many pencils as Al. The total number of pencils Al and Connor have is more than twice the number of pencils that Ben has. Work out the least possible number of pencils that Al could have. <math>\underline{32}</math></p> <p><math>A = x \quad B = x + 48 \quad C = 4x</math> <math>3x &gt; 96</math> <math>x &gt; \frac{96}{3}</math> <math>x &gt; 32</math></p>	
<p>31</p> <p>Work out <math>426 \times 17</math> without a calculator</p> $\begin{array}{r} 426 \\ \times 17 \\ \hline 2982 \\ + 2960 \\ \hline 7242 \end{array}$	<h2>REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"!</h2>					