

# A LITTLE BIT OF MATHS EVERY DAY ...

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
<p>1</p> <p>What is 12 divided by 0.2?</p> $\frac{12 \times 10}{0.2 \times 10} = \frac{120}{20} = 6$	<p>2</p> <p>If I earn £60 for 8 hours work, what is my hourly rate of pay?</p> $60 \div 8 = 7.5$ <p>£7.50</p>	<p>3</p> <p>Work out <math>23.7 - 2.5 \times 8</math> without a calculator</p> $2.5 \times 8 = 20$ $23.7 - 20 = 3.7$	<p>4</p> <p>Write 0.000604 in standard form</p> $6.04 \times 10^{-4}$	<p>5</p> <p>What is 150,000 less than 10 million?</p> $9,850,000$	<p>6</p> <p> <math>A = x</math>  <math>S = 2x</math>  <math>M = 2x + 9</math> </p> <p> <math>5x + 9 = 94</math>  <math>5x = 85</math>  <math>x = 17</math> </p> <p>Sarah is twice as old as Andy. Mel is nine years older than Sarah.</p> <p>The total of their ages is 94. How old is Mel?</p> $2 \times 17 + 9 = 33$	<p>7</p>
<p>8</p> <p>Evaluate <math>27^0</math></p> <p>1</p>	<p>9</p> <p>Alfie, Billy &amp; Charlie share some money in the ratio 2:3:5.</p> <p>Charlie got £75 more than Alfie</p> <p>How much money did Billy get?</p> <p>£75</p>	<p>10</p> <p>Expand <math>5x^{-4}y^2(3x^2 + 4x^3y)</math></p> $15x^{-2}y^2 + 20x^{-1}y^3$	<p>11</p> <p>List the first four triangular numbers</p> <p>1 3 6 10</p>	<p>12</p> <p>Calculate <math>0.17 \times 6000</math></p> $17 \times 6 = 102$ $17 \times 6000 = 102,000$ $0.17 \times 6000 = 1020$	<p>13</p> <p>It is a square! Work out the shaded area.</p> <p>Square = <math>81 \text{ cm}^2</math></p> <p>① = <math>9 \times 5 = 22.5</math></p> <p>② = <math>6 \times 9 = 27</math></p> <p>Shaded = <math>81 - (22.5 + 27) = 31.5 \text{ cm}^2</math></p>	<p>14</p>
<p>15</p> <p>Work out <math>25.8 + 12.6 \div 2</math> without a calculator</p> $\frac{25.8}{6.3} = 32.1$	<p>16</p> <p>Andrew and Ruby have saved a total of £458 for their holiday. Andrew saved £72 more than Ruby. How much did Andrew save?</p> $458 - 72 = 386$ $386 \div 2 = 193$ $193 + 72 = 265$	<p>17</p> <p>What is 100,000 less than 5 million?</p> <p>4,900,000</p>	<p>18</p> <p> <math>\frac{6}{8}</math> <math>\frac{9}{11}</math> <math>\frac{11}{14}</math> <math>\frac{12}{14}</math> <math>\frac{14}{15}</math> <math>\frac{14}{12}</math> <math>\frac{15}{9}</math> </p> <p>From the above list, find:</p> <p>- the median <math>\frac{12}{14}</math></p> <p><math>81 \div 7</math> - the mean <math>11.57</math> (2dp)</p>	<p>19</p> <p>How many 20p coins make up £1500?</p> <p>£1 = 50 coins</p> <p><math>1500 = 7500</math></p>	<p>20</p> <p>Helen buys 10 boxes of drinks. The cost of each box of drinks is £50. Each box holds 12 cans of drink. Helen sells two thirds of the cans for 60p each. She then sells all the remaining cans for 30p each. How much profit does Helen make?</p> <p> <math>120 \text{ cans}</math>  <math>80 \times 60p = 48</math>  <math>40 \times 30p = 12</math>  <math>(48 + 12) - 50 = 10</math> </p>	<p>21</p>
<p>22</p> <p>Calculate <math>147 \times £2.36</math> without a calculator</p> <p>£346.92</p>	<p>23</p> <p>Work out <math>0.002 \times 2.4</math> without a calculator</p> <p>0.0042</p>	<p>24</p> <p>Write down the first 4 terms of the sequence <math>4^2 - 10</math></p> <p><math>12 - 10</math> <math>2^2 - 10</math> <math>3^2 - 10</math></p> <p><math>4^2 - 10</math> <math>n^2 - 10</math></p> <p><math>-9, -6, -1, 6</math></p>	<p>25</p> <p>Solve <math>4p - 2 = 16</math></p> <p><math>= 4.5</math></p>	<p>26</p> <p>Solve <math>7y &gt; 5y - 2</math></p> <p><math>2y &gt; -2</math></p> <p><math>y &gt; -1</math></p>	<p>27</p> <p><math>n \times 4^2 = 50.24 \text{ cm}^2</math></p> <p>What is the total area that is shaded?</p>	<p>28</p>
<p>29</p> <p>Express 96 as a product of its prime factors.</p> <p><math>2^5 \times 3</math></p>	<p>30</p> <p>Work out 22.5% of £1100 without a calculator</p> <p>£247.5</p>	<p>31</p> <p>Write 54,000 in standard form</p> <p><math>5.4 \times 10^5</math></p>	<h1>AUGUST 2016</h1> <p>REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"!</p>			