

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

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
<p>1</p> <p>Write 56 as a product of its prime factors.</p> <p>$2^3 \times 7$</p>	<p>2</p> <p>Write 680400 in standard form.</p> <p>6.804×10^5</p>	<p>3</p> <p>£74.18</p> <p>£800 is invested for 3 years at 3% simple interest per year. Work out the total interest.</p>	<p>4</p> <p>£500</p> <p>A "thing" is reduced by 30% in a sale. The sale price is £350. What is the normal price of the "thing"?</p>	<p>5</p> <p>$\frac{2}{5} \times \frac{3}{8} = \frac{6}{40} = \frac{3}{20}$</p>	<p>6</p> <p>100 students take part in lunchtime activities at a school. They can do either Art, Music or Drama. 29 students do Art of which 15 are girls. 23 students do Music of which 13 are girls. There are 47 boys altogether. Draw a frequency tree using this information.</p>	<p>7</p> <p style="text-align: right;"></p>
<p>8</p> <p>$\frac{7}{9} - \frac{2}{5} = \frac{13}{45}$</p>	<p>9</p> <p>-2, -1, 0, 1, 2, 3, 4</p> <p>m is an integer such that $-3 < m \leq 4$. Write down all the possible values of m.</p>	<p>10</p> <p>Three friends share £450 in the ratio 3 : 2 : 4</p> <p>150, 50, 200</p> <p>Work out the amount each person gets.</p>	<p>11</p> <p>Simplify $p^7 \times p^6$</p> <p>p^{13}</p>	<p>12</p> <p>Round 0.0478811 to 2 significant figures</p> <p>0.048</p>	<p>13</p> <p>Sue bought a new car for £8,900. Each year the value of the car depreciates by 10%. After how many years will the car be first worth (4450) less than half its original price?</p> <p>7 yr^2</p>	<p>14</p>
<p>15</p> <p>Write 6.7×10^{-5} as an ordinary number.</p> <p>0.000067</p>	<p>16</p> <p>Simplify $p^7 \div p^6$</p> <p>p^1</p>	<p>17</p> <p>Work out 22.5% of £8500</p> <p>£1912.50</p>	<p>18</p> <p>0.95</p> <p>$0.45 + \frac{1}{2}$</p>	<p>19</p> <p>£99.89</p> <p>£800 is invested for 3 years at 4% compound interest per year. Work out the total interest.</p>	<p>20</p> <p>I am thinking of a number: It is a common factor of 288 and 360. It is a common multiple of 4 and 6. It is larger than 25</p> <p>72 36</p> <p>Find the two possible numbers I could be thinking of.</p>	<p>21</p>
<p>22</p> <p>Simplify $(p^7)^2$</p> <p>p^{14}</p>	<p>23</p> <p>0.366 y to 376</p> <p>A number, y, is rounded to 2 significant figures. The result is 0.37. Write down the error interval for y.</p>	<p>24</p> <p>$\frac{4}{5} + \frac{3}{7} = \frac{43}{35}$</p>	<p>25</p> <p>A "thing" is reduced by 17.5% in a sale. The sale price is £264. What is the normal price of the "thing"?</p>	<p>26</p> <p>Write 0.000 376 in standard form.</p> <p>3.76×10^{-4}</p>	<p>27</p> <p>The total cost of the van is £7000 plus 20% VAT. A deposit of £2000 is paid. The rest of the total cost is paid in 10 equal monthly payments.</p> <p>£640</p> <p>Work out the amount of each monthly payment.</p>	<p>28</p>
<p>29</p> <p>$\frac{4}{7} \div \frac{1}{2} = \frac{8}{7}$</p>	<p>30</p> <p>£1500 is invested for 3 years at 3% compound interest per year. How much is the investment worth at the end of 3 years?</p> <p>£1736.44</p>	<p>31</p> <p>Simplify $(2a^3)^3$</p> <p>$8a^9$</p>	<p>£320</p> <h1 style="margin: 0;">OCTOBER 2018</h1>			

REMEMBER: THE BEST WAY TO REVISE MATHS IS TO "DO MATHS"!

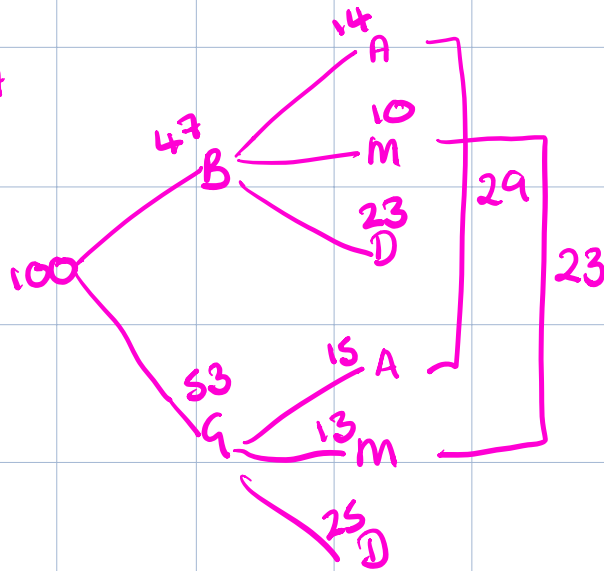
20/21

$$288 = 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3$$
$$360 = 2 \times 2 \times 2 \times 3 \times 3 \times 5$$

Common Factors: -

2, 4, 8, 6, 12, 18, 24, 36, 72

6/7



$$29 - 15 = 14$$

$$23 - 13 = 10$$

$$47 - 24 = 23$$

$$53 - 28 =$$