

# OCTOBER... A LITTLE BIT OF MATHS EVERY DAY

<p>1</p> <p>Simplify, leave your answer in index form</p> $6^3 \times 6^3$ $(5^2)^3$	<p>2</p> <p>Solve:</p> $5(x + 1) = 3(2x - 4)$	<p>3</p> <p>What is the reciprocal of each number?</p> $5$ $\frac{1}{3}$	<p>4</p> <p>Convert to an improper fraction</p> $3\frac{4}{7}$	<p>5</p> <p>A box of cereal weighs 750g to the nearest 10g. What is the error interval?</p>	<p>6</p> <p>7</p> <p>In a survey of 24 students:</p> <ul style="list-style-type: none"> <li>- three eighths prefer studying French</li> <li>- one sixth prefer studying German and</li> <li>- the rest prefer studying Spanish.</li> </ul> <p>How many students prefer studying Spanish?</p>
<p>8</p> <p>The cost of hiring a van can be calculated using the rule: Cost = £80 + 52p per mile</p> <p>Rob hires a van and travels 140 miles. How much does this cost him?</p>	<p>9</p> <p>10</p> <p>By rounding estimate the answer to the below:</p> $\frac{9.7 + 46}{0.32}$	<p>11</p> <p>Which two have the same value?</p> <ul style="list-style-type: none"> <li>- 8 + 6</li> <li>- 8 + 4</li> <li>- 6 - - 2</li> </ul>	<p>12</p> <p>True or False?</p> $a^7 \times a^4 = a^{28}$	<p>13</p> <p>Find the midpoint of the line AB where:</p> <p>A = (2, 4) and B = (-1, 3)</p>	<p>14</p> <p>Work out</p> $16 - (4 \times 3) + 6 =$ $12 + 3 + 3 + 2 =$
<p>15</p> <p>Simplify</p> $a \times a \times a + b + b$	<p>16</p> <p>Solve:</p> $9x - 7 = 4x - 12$	<p>17</p> <p>What is the gradient and y-intercept of the line</p> $y = 2x - 3?$	<p>18</p> <p>Write these in size order, smallest first?</p> $0.2 \quad \frac{3}{20} \quad 0.13 \quad \frac{1}{4}$	<p>19</p> <p>Find 3.75% of 80.</p>	<p>20</p> <p>21</p> <p>Elaine's grandchildren all live in Wales or England. Two sevenths of her grandchildren live in Wales. 15 of her grandchildren live in England</p> <p>How many grandchildren does Elaine have?</p>
<p>22</p> <p>Which is greater?</p> <p>40% of 50 or 50% of 40</p>	<p>23</p> <p>Make a the subject of:</p> $b = (a - 3)^2$	<p>24</p> <p>Calculate:</p> $1\frac{2}{3} - \frac{1}{5}$	<p>25</p> <p>How many "terms" in this expression?</p> $4x + 5b - 3c$	<p>26</p> <p>Expand:</p> $(2x + 4)(3x + 2)$	<p>27</p> <p>28</p> <p>Emma is E years old. Hannah is twice as old as Emma. The sum of their ages is 27.</p> <p>How old is Emma?</p>
<p>29</p> <p>Laura scored 48 out of 250 on her recent test. Write this as a percentage.</p>	<p>30</p> <p>£1 = \$1.49</p> <p>Jan exchanged £300 to dollars. How much did she receive?</p>	<p>31</p> <p>True or False?</p> <p>The HCF of 20 and 40 is 4</p>	<p>REMEMBER: The best way to revise maths is to "do Maths"!</p>		