

January Maths Masters

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday				
<div style="display: flex; align-items: center; justify-content: center;"> <table border="1" style="border-collapse: collapse; margin-right: 20px;"> <tr><td style="padding: 5px;">+</td><td style="padding: 5px;">-</td></tr> <tr><td style="padding: 5px;">×</td><td style="padding: 5px;">=</td></tr> </table> <p style="margin: 0;">Have a go at each of the questions for January. Can you draw your working out? Can you show it using a written method? Can you talk to someone about how you worked out your answers?</p> </div>				+	-	×	=	<p>1 What is the product of $\frac{2}{8}$ and 4? Can you draw your working out?</p>	<p>2 Write these decimals in words and as fractions: 0.08 0.9 0.58 0.6</p>	<p>3 What is the sum of $\frac{3}{5}$ and $\frac{3}{8}$? How do you know?</p>
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<p>4 Write 4 equivalent fractions to $\frac{5}{9}$.</p>	<p>5 Put these fractions on a 0-1 number line: $\frac{1}{10}$ $\frac{2}{5}$ $\frac{1}{8}$ $\frac{4}{5}$ $\frac{1}{100}$</p>	<p>6 What is the total of 3508, 6308, 1005 and 903? Estimate and then calculate.</p>	<p>7 What is 359×13? 359×14? 359×15? How did you work them out?</p>	<p>8 Write 5 pairs of numbers with a difference of 35.</p>	<p>9 Draw the net of a cube. Describe its properties using mathematical vocabulary.</p>	<p>10 $651 \times 5 = 3255$. Describe how this helps you work out 651×7.</p>				
<p>11 What is the difference between 16849 and 13568?</p>	<p>12 What is 15% of these numbers: 600 350 51 85 92 30</p>	<p>13 Can two rectangles have the same area but different perimeters?</p>	<p>14 Order these numbers: 0.015, 0.051, 0.51, 0.15. Explain how you did it.</p>	<p>15 If $3p \times 3 = 135$, what is the value of p? What is the value of $4p$?</p>	<p>16 Divide these numbers by 13: 3198, 884, 741, 3731.</p>	<p>17 What time is 19:53 in words? Can you draw it on a clock face?</p>				
<p>18 How many grams are the same as 6.03kg? How do you know?</p>	<p>19 What's bigger 10%, $\frac{1}{5}$ or 0.15? How do you know?</p>	<p>20 What are the multiples of 36? Can you list them all?</p>	<p>21 Simplify these fractions: $\frac{16}{42}$ $\frac{15}{60}$ $\frac{6}{24}$</p>	<p>22 What are the properties of quadrilaterals? Can you draw 3 examples?</p>	<p>23 If I left home at 4:37 and spent 135 minutes on a walk, what time did I get home?</p>	<p>24 Find the product of these pairs: 417 and 17 194 and 94 143 and 43</p>				
<p>25 Two oranges and a lemon cost 50p. Three oranges and a lemon cost 67p. How much do the lemon and orange cost?</p>	<p>26 How do you find 35% of a number? Can you show me the method?</p>	<p>27 What is the area of a triangle which has a base of 5cm and a height of 7cm?</p>	<p>28 What is the odd number out and why: 55, 33, 11, 44?</p>	<p>29 Jake chose a number. He added 35. Then divided by 4. Then added 12. His answer was got 25. What was his number?</p>	<p>30 What is the volume of a cuboid which measures 3cm by 7 cm by 8cm? How do you know?</p>	<p>31 TRICKY QUESTION: How many minutes have you attended school this year?</p>				