


7th February		 Corbettmaths															
$4\frac{1}{4} \times 2\frac{3}{5}$ $\frac{17}{4} \times \frac{13}{5} = \frac{221}{20}$		$11\frac{1}{20}$															
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Age</th> <th style="text-align: left;">Frequency</th> <th style="text-align: left;">fx</th> </tr> </thead> <tbody> <tr> <td>$0 < A \leq 10^5$</td> <td>5</td> <td>25</td> </tr> <tr> <td>$10 < A \leq 20^{15}$</td> <td>9</td> <td>135</td> </tr> <tr> <td>$20 < A \leq 40^{30}$</td> <td>6</td> <td>180</td> </tr> <tr> <td></td> <td style="border-top: 1px solid black; border-bottom: 1px solid black;">20</td> <td style="border-top: 1px solid black; border-bottom: 1px solid black;">340</td> </tr> </tbody> </table>	Age	Frequency	fx	$0 < A \leq 10^5$	5	25	$10 < A \leq 20^{15}$	9	135	$20 < A \leq 40^{30}$	6	180		20	340		<p>Calculate an estimate of the mean.</p> $340 \div 20 = 17$
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<p>The average distance of the sun from Earth is 1.5×10^8 km</p> <p>Write this as an ordinary number.</p>		150000000 km															
<p>A line has equation $y = 5x + 1$</p> <p>Write down the gradient of the line</p> <p style="text-align: center; font-size: 2em;">5</p>		<p>Write down the y-intercept of the line</p> <p style="text-align: center; font-size: 2em;">(0, 1) or 1</p>															
<p>James bought a house.</p> <p>In the first year the value of the house decreased by 10%.</p> <p>In the second year the value of the house increased by 10%.</p> <p><u>method 1</u></p> $x \times 0.9 \times 1.1 = 0.99x$ <p style="text-align: center; font-size: 1.5em;"><u>1% less</u></p>		<p>Is the house worth more, less, or the same as what James paid for it?</p> <p><u>method 2</u></p> $100 \text{ decreased by } 10\% = 90$ $90 \text{ increased by } 10\% = 99$ <p style="text-align: center; font-size: 1.5em;"><u>1% less</u></p>															