

<p><b>28th August</b></p>	
<p>The bearing of Leek from Milton is <math>304^\circ</math></p> <p>Find the bearing of Milton from Leek.</p> <p style="text-align: center;"><math>304 - 180 = 124^\circ</math></p>	<p style="text-align: right;">CorbettmOths</p>
<p>Jay is organising a party. People will sit at circular tables.</p> <p>Each table has a diameter of 110cm Each person needs 70cm around the circumference of the table.</p> <p>140 people will be at the party.</p>	<p>How many tables are needed?</p> <p><math>\pi \times 110 = 345.57\dots</math></p> <p><math>345.57\dots \div 70 = 4.93\dots</math></p> <p>4 per table.</p> <p><math>140 \div 4 = 35</math> tables</p>
<p>Calculate bearing of A from B.</p>	<p><math>\tan x = \frac{40}{5}</math></p> <p><math>x = 82.87\dots</math></p> <p><math>277.125^\circ</math></p>
<p>A counter is selected at random, the letter recorded and the counter put back into the bag. A second is then selected.</p>	<p>What is the probability that both letters are the same?</p> <p><math>P(AA) = \frac{3}{5} \times \frac{3}{5} = \frac{9}{25}</math></p> <p><math>P(CC) = \frac{2}{5} \times \frac{2}{5} = \frac{4}{25}</math></p> <p><math>P(\text{same}) = \frac{13}{25}</math></p>
<p>Write <math>0.0393939393\dots</math> as a fraction</p> <p><math>x = 0.0393939\dots</math></p> <p><math>10x = 0.393939\dots</math></p> <p><math>1000x = 39.3939\dots</math></p>	<p><math>990x = 39</math></p> <p><math>x = \frac{39}{990} = \frac{13}{330}</math></p>