


17th March		 Corbettmaths
<p>Three angles in a pentagon are 110 degrees each. $3 \times 110 = 330$</p> <p>With the two other angles, one is 10 degrees larger than the other.</p> <p>x $x+10$</p>	<p>Find the size of each angle.</p> <p>$2x + 10 + 330 = 540$</p> <p>$2x + 340 = 540$</p> <p>$2x = 200$ 100°</p> <p>$x = 100$ $x = 110^\circ$</p>	
<p>Make c the subject</p> <p>$w = \frac{4 + c}{8}$ $8w = 4 + c$</p> <p>$8w - 4 = c$</p>	<p>$c = 8w - 4$</p>	
<p>Work out</p> <p>$2\frac{3}{4} + 3\frac{2}{3}$ $\frac{11}{4} + \frac{11}{3}$</p> <p>$\frac{33}{12} + \frac{44}{12} = \frac{77}{12}$</p>	<p>$6\frac{5}{12}$</p>	
<p>Solve $x^2 + x - 12 = 0$</p> <p>$(x+4)(x-3) = 0$</p> <p>$x = -4$ or $x = 3$</p>		
<p>$a = \begin{pmatrix} -4 \\ -1 \end{pmatrix}$ $b = \begin{pmatrix} 5 \\ 3 \end{pmatrix}$</p> <p>$4a = \begin{pmatrix} -16 \\ -4 \end{pmatrix}$</p>	<p>Work out the vector $4a + b$</p> <p>$4a + b = \begin{pmatrix} -11 \\ -1 \end{pmatrix}$</p>	