
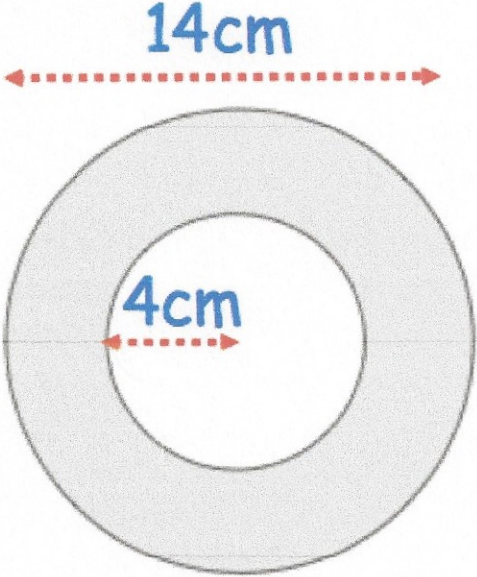


23rd June		 Corbettmaths
<p>The size of an interior angle, for a regular polygon, is <math>176^\circ</math>.</p> <p>How many sides does it have?</p> <p style="text-align: center;"><i>90 sides</i></p>	<p style="text-align: center;"><i>Exterior = <math>4^\circ</math></i></p> <p style="text-align: center;"><i><math>\frac{360}{4} = 90</math></i></p>	
	<p>Find the shaded area.</p> <p style="text-align: center;"><i><math>\pi \times 7^2 = 49\pi</math></i></p> <p style="text-align: center;"><i><math>-\pi \times 4^2 \quad -16\pi</math></i></p> <hr style="width: 10%; margin: auto;"/> <p style="text-align: center;"><i><math>33\pi \text{ cm}^2</math></i></p> <p style="text-align: center;"><i><math>103.7 \text{ cm}^2</math></i></p>	
<p>The time, <math>T</math> days, to build a house, is inversely proportional to the number of builders, <math>n</math>, building the house.</p>	<p>The number of days taken to build the how is found by</p> <p style="text-align: center;"><i><math>T = \frac{90}{n}</math></i></p> <p>where <math>n</math> is the number of builders.</p>	
<p>A house takes 15 days to build. How many builders work on the house?</p> <p style="text-align: center;"><i>6</i></p>	<p style="text-align: center;"><i><math>15 = \frac{90}{n}</math></i></p> <p style="text-align: center;"><i><math>15n = 90</math></i></p> <p style="text-align: center;"><i><math>n = 6</math></i></p>	