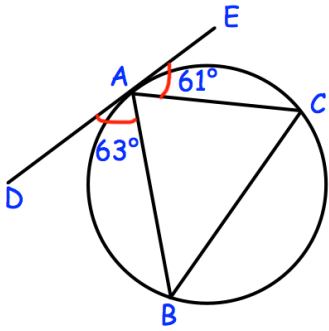
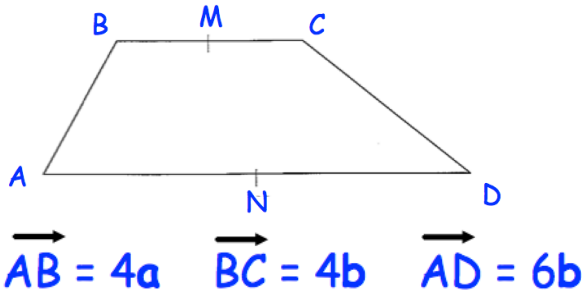


Name: _____

August 21	5-a-day	Higher										
<p>A bag contains 4 shapes.</p> <table border="1" data-bbox="172 293 580 544"> <thead> <tr> <th>Shape</th> <th>Probability</th> </tr> </thead> <tbody> <tr> <td>Circle</td> <td>0.4</td> </tr> <tr> <td>Triangle</td> <td>0.1</td> </tr> <tr> <td>Square</td> <td></td> </tr> <tr> <td>Rectangle</td> <td></td> </tr> </tbody> </table>	Shape	Probability	Circle	0.4	Triangle	0.1	Square		Rectangle			<p>The probability of choosing a square is equal to the probability of choosing a rectangle.</p> <p>Complete the table.</p>
Shape	Probability											
Circle	0.4											
Triangle	0.1											
Square												
Rectangle												
<p>In 1980, the population of a country was 8,000,000.</p> <p>In 1990, the population of a country was 8,500,000.</p> <p>Work out the percentage increase.</p>												
		<p>Find angle BAC.</p> <p>Find angle ACB.</p>										
<p>A car travels at 50mph, correct to 1 significant figure. It covers a distance of 300 miles, correct to 2 significant figures.</p> <p>Calculate the least possible time taken.</p>												
 <p>$\vec{AB} = 4\mathbf{a}$ $\vec{BC} = 4\mathbf{b}$ $\vec{AD} = 6\mathbf{b}$</p>		<p>M is the midpoint of BC. N is the midpoint of AD.</p> <p>Find \vec{MN}</p>										