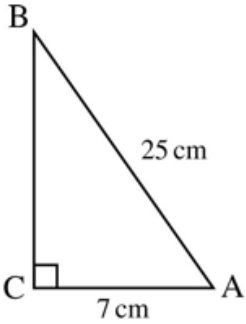
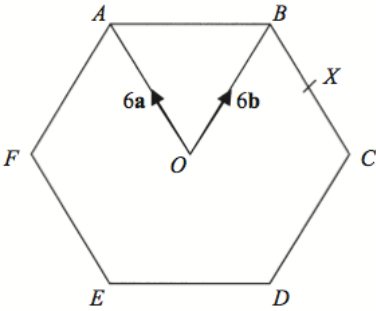


Name: _____

March 28th	5-a-day	Higher										
<p>Write 0.0000434 in standard form</p>		<p>Write 9800000 in standard form</p>										
 <p>A right-angled triangle ABC with the right angle at vertex C. The horizontal side AC is labeled 7 cm. The hypotenuse AB is labeled 25 cm. Vertex B is vertically above C.</p>		<p>Calculate the length of BC</p>										
<p>Factorise fully</p> <p>$3x^2 - 48$</p>												
<table border="1" data-bbox="180 1330 563 1626"> <thead> <tr> <th>Height h (metres)</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>$0 < h \leq 2$</td> <td>12</td> </tr> <tr> <td>$2 < h \leq 4$</td> <td>8</td> </tr> <tr> <td>$4 < h \leq 6$</td> <td>12</td> </tr> <tr> <td>$6 < h \leq 8$</td> <td>10</td> </tr> </tbody> </table>	Height h (metres)	Frequency	$0 < h \leq 2$	12	$2 < h \leq 4$	8	$4 < h \leq 6$	12	$6 < h \leq 8$	10		<p>Two trees are selected at random. What is the probability they are both under two metres?</p>
Height h (metres)	Frequency											
$0 < h \leq 2$	12											
$2 < h \leq 4$	8											
$4 < h \leq 6$	12											
$6 < h \leq 8$	10											
 <p>A regular hexagon ABCDEF with vertices labeled clockwise from top-left. Point O is inside the hexagon. Vectors OA and OB are labeled 6a and 6b respectively. Side BC has a point X marked with a tick.</p>		<p>Find vector AB</p>										