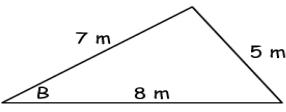
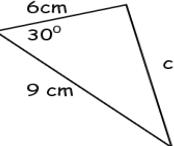
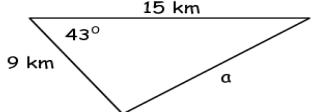
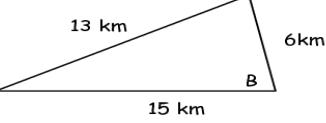
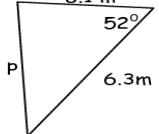
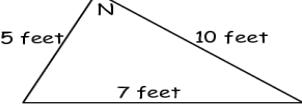
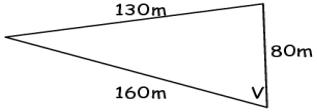
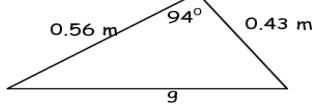


# Worksheet: Using the Cosine Rules

<p>To Find a length:</p> $a^2 = b^2 + c^2 - 2bc\cos A$ $b^2 = a^2 + c^2 - 2ac\cos B$ $c^2 = a^2 + b^2 - 2ab\cos C$ <p style="text-align: center;">Cosine Rule</p>	<p>To Find an angle:</p> $\cos A = \frac{b^2 + c^2 - a^2}{2bc}$ $\cos B = \frac{a^2 + c^2 - b^2}{2ac}$ $\cos C = \frac{b^2 + a^2 - c^2}{2ab}$ <p style="text-align: center;">Alternative form of cosine rule</p>
<p>1. Calculate the size of angle B</p> 	<p>2. Calculate the length of line C</p> 
<p>3. Calculate the size of length a</p> 	<p>4. Calculate the size of angle B</p> 
<p>5. Calculate the size of length p</p> 	<p>6. Calculate the size of angle N</p> 
<p>7. Calculate the size of angle V</p> 	<p>8. Calculate the size of length g</p> 

Diagrams are not drawn to scale