Finding Lengths Using Cosine Rule			
Question	Label the triangle with the angle being used as A	Fill into the formula	Use calculator to find missing length.
17.9 cm x	17.9 cm A 14.7 cm C x a	$a^{2} = b^{2} + c^{2} - 2bc \cos A$ $x^{2} = 14.7^{2} + 17.9^{2} - 2 \times 14.7 \times 17.9 \cos 62$	$x^2 = 289.436$ $x = 17.0 \ cm \ (1 \ dp)$
8 cm 88 d	$ \begin{array}{c} A \\ b \\ 6 \\ c \\ 8 \\ c \\ d \\ a \end{array} $	$a^{2} = b^{2} + c^{2} - 2bc \cos A$ $x^{2} = 6^{2} + 8^{2} - 2 \times 6 \times 8 \times \cos 88$	
15 cm 11 cm	15 cm 11 cm 32		
65 mm 67 85 mm	65 mm 67 85 mm		
5.2 cm 48 5.5 cm	5.2 cm 48 5.5 cm		