Question		on	Answer	Marks	AOs	Guidance	
1	(i)		$\frac{\sin x}{20} = \frac{\sin 45}{16}$	M1*	1.1a	Use sine formula correctly in any form	$\mathbf{SC} \operatorname{B1} \frac{\sin x}{16} = \frac{\sin 45}{20}$
			$\sin x = \frac{20\sin 45}{16} \left(=\frac{5\sqrt{2}}{8}\right)$	A1	1.1	Correct expression for $\sin x$ or 0.883	
				Dep*M1	1.1	Correct work leading to a value for $x - if$ previous A mark awarded then this mark is for getting to either 62.1 or 117.9	If the previous A mark was not awarded then award for evidence of using inverse sin on their value of sin x
			62.1 and 117.9	A1	1.1	Cao	
				[4]			
1	( <b>ii</b> )		$\frac{1}{2}(BC)(20)\sin(45) = 75\sqrt{2}$	M1	<b>1.1</b> a	Use $\frac{1}{2}ab\sin C$ correctly and equate to $75\sqrt{2}$	
			(BC =) 15  (cm)	A1	1.1	Accept 15.0 from correct working	
				[2]			