13	(a)	T_R			Three forces in approximately correct directions, with arrows and	
		$\rightarrow T_S$			labels; tensions must be distinct	
		$\overline{\bigvee}_{15g}$	B1 [1]	1.1a	Accept W or mg for the weight; condone missing g for this mark	
13	(b)	Resolve vertically: $T_R \cos 30^\circ = 15g$	M1	3.3	Forming equilibrium equation	
		$T_R = \frac{15 \times 9.8}{\cos 30^\circ} = 98\sqrt{3} = 170$ N (3sf)			(allow sin/cos interchange)	
		$T_R = \frac{1200000}{\cos 30^\circ} = 98\sqrt{3} = 170$ N (3sf)	A1	1.1b	Oe	
		00330	[2]			
13	(c)	Resolve horizontally: $T_s = T_R \sin 30^\circ$	M1	1.1a	Allow sin/cos interchange if	Accept
		$T_{\rm s} = 84.9 {\rm N} (3{ m sf})$			consistent with (b)	$T_s = 15g \tan 30^\circ$
			A1	1.1b	Oe	
			[2]			