

Question		Answer	Marks	AO	Guidance
3	(a)	Resolve horizontally $F = 12 \sin 20$  $F = 4.10$	<b>M1</b>  <b>A1</b>  <b>[2]</b>	<b>1.1a</b>  <b>1.1</b>	Resolving horizontally – allow sin/cos interchange. Allow if $F = T \sin 20$ or similar seen  www
3	(b)	Resolve vertically [ $mg =$ ] $12 \cos 20$  $m = \frac{12 \cos 20^\circ}{g} = 1.15 \text{ kg}$	<b>M1</b>  <b>M1</b>  <b>A1</b>  <b>[3]</b>	<b>3.1b</b>  <b>3.4</b>  <b>1.1</b>	Resolve to find vertical component of tension. Allow sin/cos interchange if consistent with (a) If triangle of forces used, allow attempt to find by Pythagoras  Equating weight to their component of tension and dividing their weight by $g$ soi  cao