

Question Number	Scheme	Marks
2(a)	$T - 0.5g - 1.5g = 2 \times 0.5$ $T = 20.6 \text{ (N) or } 21 \text{ (N)}$	M1 A1 A1 (3)
(b)	$R - 1.5g = 1.5 \times 0.5$ $\text{Force} = 15.5 \text{ (N) or } 15 \text{ (N)}$ OR: $T - R - 0.5g = 0.5 \times 0.5$ $\text{Force} = 15.5 \text{ (N) or } 15 \text{ (N)}$	M1 A1 A1 (3)  <b>OR</b> M1 A1 A1 (3) <b>6</b>
	<b>Notes</b>	
2(a)	<b>N.B.</b> In both parts of this question use the mass which is being used to guide you as to which part of the system is being considered  M1 is for an equation for whole system in $T$ only, with usual rules First A1 for a correct equation Second A1 for 20.6 or 21	
2(b)	First M1 is for an equation for the brick only (1 <sup>st</sup> alternative) or for the scale pan only (2 <sup>nd</sup> alternative) with usual rules. First A1 for a correct equation (in the second alternative $T$ does not need to be substituted) Second A1 for 15.5 or 15	
	<b>N.B.</b> If $R$ is replaced by $-R$ in either equation, can score M1A1. This would lead to $R = -15.5$ or $-15$ . The second A1 can then only be scored if the candidate explains why the $-ve$ sign is being ignored.	