Question			Answer	Marks	AO	Guidance	
11	(a)			M1	3.4	Use of $s = ut + \frac{1}{2}at^2$	
			$12950 = 15t + 0.5(0.01)t^2$ leading to t = …	A1	1.1	Correct equation and attempt to solve	Consistent values used
			11.7 (minutes)	A1	1.1	**BC** cao (exact value is $11\frac{2}{3}$)	
				[3]			
11	(b)		$D - 1250 - 9000 = 70000(0.01)$	M1	3.3	N2L applied to the whole system, correct number of terms (allow sign errors)	
			10 950 (N)	A1	1.1	cao	
				[2]			
11	(c)		'10950' $- 9000 - T_C = 50000(0.01)$ or $T_C - 1250 = 20000(0.01)$	M1	3.3	N2L applied correctly to either *A* or *B*, correct number of terms (allow sign errors)	
			1450 (N)	A1	1.1	cao	
				[2]			