7	EITHER				
	acceleration phase	M1	3.1b	Use of <i>suvat</i> equation(s) to find velocity. Do not allow if $s = 10$ used	Must recognise two phases of motion for
	$v = 0 + 2.5 \times 2 = 5 \text{ m s}^{-1}$	A1	1.1b		first 4 marks
	slowing phase				
	$v^2 = u^2 + 2as$	M 1	3.1b	Use of <i>suvat</i> equation(s) with $s = 10$ to find	
	$0 = 5^{2} + 2a \times 10$ $a = -1.25 \text{ m s}^{-2}$	A1	1.1b	acceleration FT their velocity. Must be correct sign.	
					Consistent sign
	$[-R] = 1.5 \times (-1.25) = -1.875$	M1	1.1a	Use of Newton's second law.	convention needed
	Magnitude of $R = 1.875 \text{ N} (1.88 \text{ to 3sf})$	A1	1.1b	FT their $a \neq 2$ Must be positive	for full credit.
	1.00 10 001)	[6]		-	

