

Question Number	Scheme	Marks	Notes
1(a)	Use of CLM	M1	All four terms and dimensionally correct.
	$6mu - 8mu = -3mu + 2mv$	A1	Correct unsimplified
	$v = \frac{1}{2}u$	A1	Must be positive
		(3)	
(b)	$I = 3m(u - -2u)$ or $I = 2m(\frac{1}{2}u - -4u)$	M1	Impulse momentum equation for either particle. Accept +/- Correct process seen or implied. Dimensionally correct. Must link correct masses with the respective speeds
	$I = 9mu$	A1	Must be positive
		(2)	
		(5)	