Oct 2018 IAL
WME01 (M1)
FINAL

Question Number	Scheme	Marks
1(a)	$0.8\times 4-2\times 2=2v-0.8\times 2.5$	M1A1
	$v=0.6$ m s^{-1}	A1 (3)
(b)	$I=0.8(4+2.5)=5.2$, Ns or kg m s^{-1}	M1A1,B1 (3)
	OR: $I = 2(0.6 + 2) = 5.2$, Ns or kg m s^{-1}	M1A1,B1 **[6]**
	Notes for qu 1	
1a	M1 for CLM, correct no. of terms, dim correct, condone extra g's throughout and sign errors, in one unknown, with correct pairings of mass and velocity. N.B. Apply <u>same</u> criteria to an equation that has been found by eliminating the impulse from two imp-mom equations.	
	First A1 for a correct equation (condone extra g's)	
	Second A1 for 0.6 (Must be positive)	
1b	M1 for Impulse – Momentum equation for either particle, correct no. of terms, with correct velocities, condone sign errors N.B. Mark the actual equation not the formula (some candidates use $I=m(v+u)$ when the direction has been reversed)	
	M0 if g included on momentum terms	
	A1 for 5.2 (Must be positive)	
	B1 for Ns or kg m s^{-1} **N.B.** M0A0B1 is possible	