Question number	Answer	Notes	Marks
9 (a) (i)	momentum = mass × velocity;	allow rearrangements and standard symbols e.g. p = m × v reject m for momentum	1
(ii)	substitution and evaluation; e.g. (p =) 0.039 × 0.56 (p =) 0.022 (kgm/s)	 0.02184 (kgm/s) allow 0.02 (kgm/s) if supported by working	1
(iii)	use of conservation of momentum; evaluation of total mass; evaluation of mass of truck; e.g. 0.022 = m × 0.26 total mass = 0.084 mass of truck = (0.084 – 0.039 =) 0.045 (kg)	allow 'momentum before = momentum after' seen anywhere can also be implied from calculation allow ecf from (ii) allow 0.0846...(kg) allow 0.0456...(kg)	3
(b)	total mass (of system) is now greater; total momentum is the same as before; velocity will be lower than before;	 allow "momentum is conserved" calculation of new velocity = 0.169... m/s scores all 3 marks	3

Total for question 9 = 8 marks