



Mark Scheme (Results)

January 2019

Pearson Edexcel International GCSE

In Physics (4PH0) Paper 2P

Question number	Answer	Notes	Marks
9 (a) (i)	momentum = mass \times velocity;	allow rearrangements and standard symbols e.g. $p = m \times v$ 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. $0.022 = m \times 0.26$ 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 $0.0846\dots$ (kg) allow $0.0456\dots$ (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 = $0.169\dots$ m/s scores all 3 marks	3

Total for question 9 = 8 marks

