

Question number	Answer	Notes	Marks
8 (a)	momentum = mass × velocity;	Allow rearrangements and standard abbreviations $p = m \times v$	1
(b)	Equation; Substitution and rearrangement; Evaluation; e.g. $m_1 \times v_1 = m_2 \times v_2$ $10\,000 \times 4.5 / 1500$ $30(\text{m/s})$	 bald answer = 3 marks POT = -1	3

(Total for Question 8= 4 marks)