

TOPIC 5 FURTHER MECHANICS

5A Further momentum

Question number	Answer	Additional guidance	Mark
1	B	Note that while D can be true in some circumstances, it is not true if the vehicles' speeds were different initially.	(1)

(Total for Question 1 = 1 mark)

Question number	Answer	Additional guidance	Mark
2(a)	$250 \times 2.4 = 600$ (1) kg m s^{-1} (1)	Do not allow kg m/s.	(2)
2(b)	Momentum decrease (1) Change in momentum of probe = (-)change in momentum of gas (in opposite direction) (1) Gas momentum change is 'forwards' so probe change is 'backwards'. (1)	An answer in terms of Newton's third law should be credited, provided students relate it to momentum and velocity. Allow sum of momentum <u>change</u> = 0 Do not allow <u>total</u> momentum = 0	(3)
2(c)	$Ft = \Delta p$ $F = \frac{600}{20}$ (1) $F = 30 \text{ N}$ (1)	Allow error carried forward from 2(a).	(2)
2(d)	Average mass of probe will be lower. (1) As momentum change is the same, $\Delta v = \frac{\Delta p}{m_s}$ will be greater. (1)		(2)
2(e)(i)	Momentum change of probe would double. (1) Momentum change of gas = Δmv (for the same mass): double v , Δp will double. (1)		(2)

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