

TOPIC 5 FURTHER MECHANICS 5A Further momentum

| Question number | Answer | Additional guidance | Mark |
|--------------------|--------|---|------|
| 1 | В | 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 × 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 change = 0 Do not allow total momentum = 0 | (3) |
| Z(c) | $F_1 = \Delta p$ $F = \frac{600}{20}$ (1) F = 30 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, $\Delta v = \frac{\Delta p}{m_a}$ will be greater. (1) | | (2) |
| 2(4(i) | Momentum change of probe would double. (1) Momentum change of gas = Δ/m/ (for the same mass): double ν, Δρ will double. (1) | | (2) |

Ial Physics Mark Scheme

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