

Question			Expected response	Max mark	Additional guidance
2.	(a)		$F = ma$ (1) $125 - (15 + 45) = (28 + 85) \times a$ (1) $a = 0.58 \text{ m s}^{-2}$	2	SHOW Must show how both total mass and unbalanced force are arrived at.
	(b)		$F = ma$ (1) $F = 28 \times 0.58$ (1) $(F = \textit{Tension} + \textit{Friction})$ $28 \times 0.58 = \textit{Tension} + (-15)$ (1) $\textit{Tension} = 31 \text{ N}$ (1)	4	Accept: 30, 31.2, 31.24 $T = ma$ on its own - 0 marks.
	(c)		(Tension) increases (1) (Friction increases but) unbalanced/ resultant force remains the same. (1)	2	JUSTIFY Must be clear it is the unbalanced force that remains constant. Accept: ' F ' for unbalanced force Can be justified by calculation.