

Question number	Answer	Notes	Marks
2 (a)	(i) centre of gravity / centre of mass;	allow centre of weight	1
	(ii) balance / newtonmeter;	allow <u>newton</u> scales ignore scales	1
	(b) (i) moment = force × (perpendicular) distance;	allow standard symbols and rearrangements e.g. moment = $F \times d$ ignore m for moment	1
	(ii) substitution; e.g. $0.68 \times 4.3 (= 2.924 \text{ N cm})$		1
	(iii) idea that anti-clockwise moment = clockwise moment; rearrangement; evaluation; e.g. $2.9 = F \times 11$ $F = 2.9 / 11$ $(F =) 0.26 \text{ (N)}$	stated or implied by working allow ECF from (ii) allow 0.2636...- 0.2658... allow 0.27 condone 0.263	3

(Total for Question 2 = 6 marks)