Question number	Answer	Notes	Marks
2 (a)	centre of gravity;	accept centre of mass	1
(b)	moment = force × (perpendicular) distance;	allow standard symbols and rearrangements e.g. M = F × d allow d, s, x for distance	1
(c)	substitution; rearrangement; evaluation; $e.g. \\ 92 = F_s \times 0.84 \\ F_s = 92 / 0.84 \\ (F_s =) 110 (N)$	-1 for POT error 2 marks max. if incorrect distance used e.g. 0.42 m giving answer of 219 (N)	3
(d)	idea that every force has an equal and opposite reaction;	however expressed allow "action" for force	1
(e)	same value as (c); down;	allow ecf from (c) expected answer is 110 (N)	2

Total for Question 2 = 8 marks