Question number	Answer	Notes	Marks
8 (a)	weight of (the) plank		1
(b) (i)	moment = force x (perpendicular) distance (from pivot)		1
(ii)	substitution; final value; e.g. 1200 x 0.75 900 (Nm)		2
(c)	principle of moments (stated or implied); correct calculation of distance from hand to pivot; calculation of total anticlockwise moment; final value; e.g. (F x 2.25) + (200 x 0.75) = (1200 x 0.75) F = 330 (N)	Allow ecf from (b) 2.25 (m) seen in working (F x 2.25) + (200 x 0.75) Allow 333 N	4

Total 8 marks