

Question number	Answer	Accept	Reject	Marks
5 (a) (i)	moment = force x distance	Correct equivalent e.g. moment = $F \times d$ If (i) is blank, but correct equation written in (ii), then credit.	m for moment equation "triangles"	1
(ii)	Substitution 4.2×0.25 ; Calculation 1.05 (N m) ;	Correct answer gets both marks ACCEPT: 1.1 (N m)		2
(b)	(Moment of) weight of lid; Acts in same direction as closing force / anticlockwise;	Pull / force of gravity Acts downwards Reverse argument related to opening lid IGNORE: any reference to energy	Bald "gravity" for weight	2

Total 5 Marks