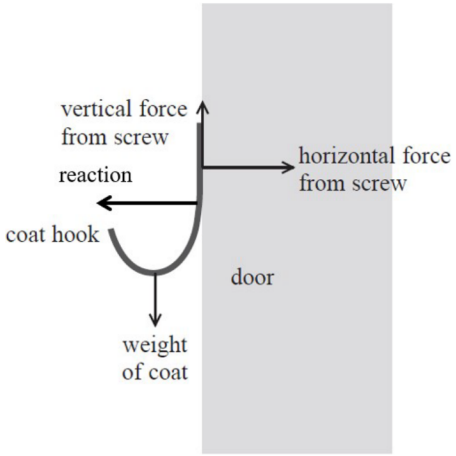
Question Number	Answer		Mark
13(a)			
	Horizontal arrow pointing to the left labelled "reaction (force from the wall on the hook)"	**(1)**	
	Arrow drawn below screw and not lower than last point of contact between hook and wall	**(1)**	**2**
	MP2 depends upon MP1		
13(b)	Use of moment of force = $F\,x$	**(1)**	
	Use of principle of moments	**(1)**	
	Use of $W = m\,g$	**(1)**	
	Correct calculation leading to conclusion no (as maximum is two coats)	**(1)**	**4**
	<u>Example of calculation</u> 150 N × 0.009 m = W × 0.025 m W = 1.35 N m ÷ 0.025 m = 54.0 N m = 54.0 N ÷ 9.81 N kg^{-1} = 5.50 kg 5.50 kg ÷ 2.6 kg = 2.12 ∴ two coats max, so no.		
	Total for question 13		**6**