Question Number	Answer		Mark
13(a)	$\text{kg m}^2\text{s}^{-2}$	(1)	(1)
13(b)(i)	Use of $T = 2\pi\sqrt{\dfrac{\ell}{g}}$	(1)	
	$\ell = 0.99$ m	(1)	(2)
	Example of calculation		
	$2.000 \text{ s} = 2\pi\sqrt{\dfrac{\ell}{9.81 \text{ m s}^{-2}}}$		
	$\therefore \ell = 9.81 \text{ m s}^{-2} \times \left(\dfrac{2 \text{ s}}{2\pi}\right)^2 = 0.994$ m		
13(b)(ii)	g varies depending upon location **Or** the metre would depend upon an accurate measurement of time **Or** the metre would depend upon the definition of the second	(1)	(1)
	Total for Question 13		4