1	(a)	Length, mass and temperature are all SI base quantities.	
		State two other SI base quantities.	
		1	
		2	 2]
	(b)	The acceleration of free fall g may be determined from an oscillating pendulum using the equation	ne
		$g = \frac{4\pi^2 l}{T^2}$	
		where l is the length of the pendulum and T is the period of oscillation.	
		In an experiment, the measured values for an oscillating pendulum are	
		$l = 1.50 \text{m} \pm 2\%$ and $T = 2.48 \text{s} \pm 3\%$.	
		(i) Calculate the acceleration of free fall g.	
		$g = \dots $	1]
		percentage uncertainty = % [:	-
		(iii) your answers in (b)(i) and (b)(ii) to determine the absolute uncertainty of the calculated value of g.	ne
		absolute uncertainty = ms ⁻² [[Total:	-