l (a) (i)	Dis	tinguish between vector quantities and scalar quantities.	
			[2]	
	(ii)	Sta	State whether each of the following is a vector quantity or a scalar quantity.	
		1.	temperature	
			[1]	
		2.	acceleration of free fall	
			[1]	
		3.	electrical resistance	
			[1]	

(b) A block of wood of weight 25 N is held stationary on a slope by means of a string, as shown in Fig. 1.1.

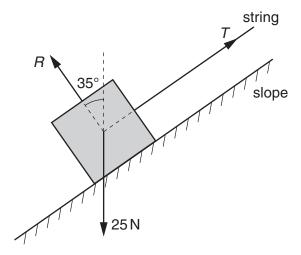


Fig. 1.1

The tension in the string is T and the slope pushes on the block with a force R that is normal to the slope.

Either by scale drawing on Fig. 1.1 or by calculation, determine the tension T in the string.