Note Tit	Quiz 3c 18/10/2011
	A 12.0 kg box is released on a 36° incline and accelerates at 0.250 m/s ² .
	Determine the coefficient of friction between the block and the ramp.

7 t_N a= 0.250mb² 5" Friet = Fgii - Fz = ma Fg = Fg sin 36 = mg sin 36 = (12)(9.8) sin 36 = 69.12 N Ff = Fg. - ma = 69.12 - (12)(0.25) = 66.12 N FN = Fg1 = mg cos 36' = (12)(9.8) cos 36 = 95.14N $F_{f} = M F_{N} \quad M^{=} = \frac{66.12}{15.19} = 0.69$