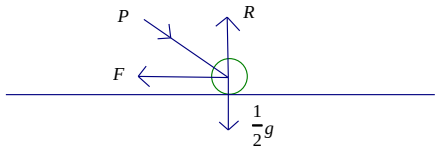
Question Number	Scheme	Marks	Notes
2.			Condone if P acting in the wrong direction but see SC below
	$F = \frac{1}{4}R$	B1	Use of $F = \mu R$ with $\mu = \frac{1}{4}$ seen or implied
	$P\cos 40 = F$	B1	Resolve horizontally. Accept $F\cos 40° = F_{max}$. Not $F\cos 40° = F$
	Resolve vertically	M1	All terms required, and dimensionally correct. $P \neq R$ Condone sign errors and sin/cos confusion
	$P\sin 40 + 0.5g = R$	A1	Correct unsimplified equation
	$P(4\cos 40 - \sin 40) = 0.5g$	DM1	Substitute for R and solve for P. Requires zero acceleration. Dependent on previous M1
	$P = 2.0$ (N) or 2.02 (N)	A1	2 or 3 sf only
		(6)	SC if F opposes their P, 6/6 available If P and F inconsistent max score available B1B0 M1A1follow their diagram DM1A0