Q	Mark Scheme	Marks	Marking guidance
2	Use of $P = Fv$	M1	Seen or implied e.g. $F = \frac{15000}{16}\left(=937.5\right)$ Condone 15 in place of 15000 or extra zeros on 15000
	Equation of motion	M1	Need all terms. Condone sign errors and sin / cos confusion. Dimensionally consistent.
	$F + 900g\sin\theta - 400 = 900a$	A1	Unsimplified equation in *P* or their *F* with at most one error
	$\frac{15000}{16} + 900g \times \frac{1}{12} - 400 = 900a$	A1	Correct unsimplified equation with *F* and $\sin\theta$ substituted
	$a = 1.41 \quad (1.4) \quad \left(\text{m s}^{-2}\right)$	A1	3sf or 2sf
		(5)	