Question Number	Scheme	Marks
1.	Use of $56 = FV$	B1
	Equation of motion	M1
	$F + 75g\sin\alpha - 40 = 75\times\frac{1}{3}$	A1
	$\left(\frac{56}{V} = 65 - 49 = 16\right)$	A1
	$V = \frac{56}{16} = 3.5$	A1
		[5]

Notes

B1	
M1	Require all terms. Dimensionally correct.(Omission of g is an accuracy error.) Condone sine / cosine confusion and sign errors
A1	Unsimplified equation with at most one error. In F or in V. Two signs inconsistent is 2 errors.
A1	Correct unsimplified equation. In F or in V.
A1	Max 3 s.f.. Not $\frac{7}{2}$ Not $3\frac{1}{2}$