

Question Number	Scheme	Marks
3(a)	$1.5 = 0 + \frac{1}{2} g t^2$	M1 A1
	$t = 0.55 \text{ or } 0.553(\text{s})$	A1
		(3)
3(b)	$1.5 = 0 + \frac{1}{2} a (0.6)^2$	M1 A1
	$0.2g - R = 0.2a$	M1 A1
	$R = 0.293, 0.29$	A1
		(5)
		(8)
Notes for Question 3		
(a)		
M1	Complete method to find the time taken using $a = g$	
A1	Correct unsimplified equation in t only	
A1	Cao	
(b)		
M1	Complete method to form an equation in a only, $a \neq g$, using $t = 0.6$	
A1	Correct unsimplified equation in a only	
M1	Use $F = ma$ to form an equation of motion with correct terms, condone sign errors, $a \neq g$	
A1	Correct unsimplified equation	
A1	Cao	
	<p>N.B. Allow consistent use of $(-a)$ instead of a and penalise in the second equation if inconsistent.</p> <p>N.B. Penalise use of $g = 9.81$ once for the whole question. Also penalise once for the whole question, answers as fractions, penalise the first one, if both answers are fractions.</p>	