			1
	$5t^2 - 9t - 2 = 0 = (5t + 1)(t - 2)$	DM1	1.1b
	T = 2 (only)	A1	1.1b
		(4)	
		(4 1	narks)
Notes:			
M1: Con	aplete method to give equation in t only. This mark is for a complete me	ethod for the	
	ime i.e. for finding sufficient equations, with usual rules, correct no. of but condone sign errors and $g$ does not need to be substituted	terms in each	
<b>A1:</b> A co	rrect equation <b>or</b> correct equations (e.g. if they find the speed, 11 ms <sup>-1</sup> ,	when the ball	
	e ground and then use that to find the total time <b>or</b> if they split the time	(e.g. 0.9s up a	and
1.1s down	n or $0.9s + 0.9s + 0.2s$ ))		
N.B. $g =$	10 must be substituted in all equations used.		
	ependent on first M1, for solving a 3 term quadratic to find $T$ or for solor for solving their equations and adding their split times to find $T$	ving their equ	ations
A1: $T =$	2 only (i.e. A0 if they give two times)		

*N.B.* If solving a <u>correct</u> quadratic, the DM1 can be implied by a correct answer i.e. the method does not need to be shown, but if there is no method shown and the answer is wrong then award DM0 A0.

**Scheme** 

**Marks** 

M1

**A**1

**AOs** 

2.1

1.1b

Question

**6.** 

Equation in *t* only

 $-2 = 9t - \frac{1}{2} \cdot 10t^2$