



A level Applied Paper 3B Mechanics Practice Paper M13 MARK SCHEME

Question 1

Question Number	Scheme	Mark
(a)	$240 = \frac{1}{2}(u + 34)10$ $u = 14$	M1 A1 A1 (3)
(b)	$34 = 14 + 10a \Rightarrow a = 2$ $120 = 14t + \frac{1}{2} \times 2 \times t^2$ $t^2 + 14t - 120 = 0$ Solving, $t = -20$ or 6 $t = 6$	M1 A1 M1 A1 DM1 A1
	OR $34 = 14 + 10a \Rightarrow a = 2$ $v^2 = 14^2 + 2 \times 2 \times 120 \Rightarrow v = 26$ AND $26 = 14 + 2t$ $t = 6$	M1 A1 M1 A1 DM1 A1
		(6)
		[9]
Notes for Question		
Q (a)	First M1 for a complete method to produce an equation in u only. First A1 for a correct equation. ($u^2 - 48u + 476 = 0$ oe is possible). Second A1 for $u = 14$.	
Q (b)	EITHER First M1 for an equation in a only. (M0 if $v = 34$ when $s = 120$ is used) First A1 for $a = 2$. (This may have been found in part (a)) Second M1 for a 3-term quadratic equation in t only, allow sign errors (must have found a value of a . (M0 if $v = 34$ when $s = 120$ is used) Second A1 for a correct equation. Third M1 dependent on previous M1 for solving for t . Third A1 for $t = 6$ OR First M1 for an equation in a only. First A1 for $a = 2$. (This may have been found in part (a)) Second M1 for a complete method to obtain an equation in t only, allow sign errors. (must have found a value of a) Second A1 for a correct equation. Third M1 dependent on previous M1 for solving for t . Third A1 for $t = 6$	

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