



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 $t = 6$	

May 2013 Mechanics 1 Mark Scheme

L Reisser



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May 2013 Mechanics 1 Mark Scheme Book Review: Unveiling the Power of Words

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Table of Contents May 2013 Mechanics 1 Mark Scheme

1. Understanding the eBook May 2013 Mechanics 1 Mark Scheme
 - The Rise of Digital Reading May 2013 Mechanics 1 Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying May 2013 Mechanics 1 Mark Scheme
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an May 2013 Mechanics 1 Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from May 2013 Mechanics 1 Mark Scheme
 - Personalized Recommendations
 - May 2013 Mechanics 1 Mark Scheme User Reviews and Ratings

- May 2013 Mechanics 1 Mark Scheme and Bestseller Lists
- 5. Accessing May 2013 Mechanics 1 Mark Scheme Free and Paid eBooks
 - May 2013 Mechanics 1 Mark Scheme Public Domain eBooks
 - May 2013 Mechanics 1 Mark Scheme eBook Subscription Services
 - May 2013 Mechanics 1 Mark Scheme Budget-Friendly Options
- 6. Navigating May 2013 Mechanics 1 Mark Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - May 2013 Mechanics 1 Mark Scheme Compatibility with Devices
 - May 2013 Mechanics 1 Mark Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of May 2013 Mechanics 1 Mark Scheme
 - Highlighting and Note-Taking May 2013 Mechanics 1 Mark Scheme
 - Interactive Elements May 2013 Mechanics 1 Mark Scheme
- 8. Staying Engaged with May 2013 Mechanics 1 Mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers May 2013 Mechanics 1 Mark Scheme
- 9. Balancing eBooks and Physical Books May 2013 Mechanics 1 Mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection May 2013 Mechanics 1 Mark Scheme
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine May 2013 Mechanics 1 Mark Scheme
 - Setting Reading Goals May 2013 Mechanics 1 Mark Scheme
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of May 2013 Mechanics 1 Mark Scheme
 - Fact-Checking eBook Content of May 2013 Mechanics 1 Mark Scheme
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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