

Question	Answer	Marks	Part marks
1(a)(i)	$600 \div (11 + 9) \times 11$ [=330] with no errors seen	M1	Could be in separate steps
1(a)(ii)	270	1	
1(b)(i)	372 <i>cao nfw/w</i>	3	B2 for answer 371.7... or M1 for $330 \times \left(1 + \frac{1.5}{100}\right)^8$ <i>oe</i> not spoiled After zero scored, SC1 for answer 42 or 41.7...
1(b)(ii)	12.6 or 12.7 or 12.63 to 12.73	2	M1 for $\frac{\text{their (b)(i)} - 330}{330}$ or $\frac{\text{their (b)(i)}}{330} \times 100$ <i>soi</i> by 112.7 or 113 After zero scored, SC1 for answer 12%
1(c)(i)	$\frac{99}{280}$ <i>cao final answer</i>	1	
1(c)(ii)	27.5[0]	3	M2 for $24.75 + \frac{100 - 10}{100}$ <i>oe</i> or M1 for recognising 24.75 as 90[%] <i>oe</i>
1(d)(i)	32 <i>cao</i>	2	M1 for $\left(1 - \frac{20}{100}\right)\left(1 - \frac{15}{100}\right)[x]$ <i>oe</i> or for $0.15 \times 0.8 [x]$ <i>oe</i>
1(d)(ii)	13 <i>cao</i>	2	M1 for $\left(1 - \frac{20}{100}\right)\left(1 - \frac{15}{100}\right) \times x = 40.84 - 32$ <i>oe seen</i> or for $\text{their (d)(i)} + \left(1 - \left(\frac{\text{their (d)(i)}}{100}\right)\right)x = 40.84$ <i>oe</i>
2(a)(i)	Image at (8, 1), (10, 5), (8, 5)	2	B1 for translation $\begin{pmatrix} 6 \\ k \end{pmatrix}$ or $\begin{pmatrix} k \\ -5 \end{pmatrix}$ or 3 correct points not joined
2(a)(ii)	Image at (4, 10), (4, 8), (8, 8)	2	B1 for rotation 90° anticlockwise but different centre or for rotation 90° clockwise about (-4, 10) or 3 correct points not joined
2(a)(iii)	Image at (6, 3), (6, 5), (7, 5)	2	B1 for enlargement factor $\frac{1}{2}$ but incorrect centre or 3 correct points not joined
2(b)	Reflection	1	
	$y = -x$ <i>oe</i>	1	If zero scored, M1 for correct use of matrix product

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H Kauffman



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Table of Contents Friday 14 June 2013 Maths Mark Scheme

1. Understanding the eBook Friday 14 June 2013 Maths Mark Scheme
 - The Rise of Digital Reading Friday 14 June 2013 Maths Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying Friday 14 June 2013 Maths 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 Friday 14 June 2013 Maths Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Friday 14 June 2013 Maths Mark Scheme
 - Personalized Recommendations
 - Friday 14 June 2013 Maths Mark Scheme User Reviews and Ratings
 - Friday 14 June 2013 Maths Mark Scheme and Bestseller Lists
5. Accessing Friday 14 June 2013 Maths Mark Scheme Free and Paid eBooks
 - Friday 14 June 2013 Maths Mark Scheme Public Domain eBooks
 - Friday 14 June 2013 Maths Mark Scheme eBook Subscription Services
 - Friday 14 June 2013 Maths Mark Scheme Budget-Friendly Options
6. Navigating Friday 14 June 2013 Maths Mark Scheme eBook Formats

- ePub, PDF, MOBI, and More
- Friday 14 June 2013 Maths Mark Scheme Compatibility with Devices
- Friday 14 June 2013 Maths Mark Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Friday 14 June 2013 Maths Mark Scheme
 - Highlighting and Note-Taking Friday 14 June 2013 Maths Mark Scheme
 - Interactive Elements Friday 14 June 2013 Maths Mark Scheme
- 8. Staying Engaged with Friday 14 June 2013 Maths Mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Friday 14 June 2013 Maths Mark Scheme
- 9. Balancing eBooks and Physical Books Friday 14 June 2013 Maths Mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Friday 14 June 2013 Maths Mark Scheme
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Friday 14 June 2013 Maths Mark Scheme
 - Setting Reading Goals Friday 14 June 2013 Maths Mark Scheme
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Friday 14 June 2013 Maths Mark Scheme
 - Fact-Checking eBook Content of Friday 14 June 2013 Maths 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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