



GCSE MATHEMATICS - PAPER 3H

Summer 2022 **Predicted** Paper

Mark Scheme

Question	Working	Mark	Comment
1	$\begin{pmatrix} 5 \\ -13 \end{pmatrix}$	B1	
2	$399.5 \text{ kg} \leq \text{mass} < 400.5 \text{ kg}$	B1	
3	$3y + 8$	B1	
4a	14	A1	
4b	32	A1	
4c	Substitutes in $n = 1$ and arrives at 2 or Substitutes in $n = 2$ and arrives at 8	M1	
	Substitutes in $n = 1$ and $n = 2$ and arrives at 2 and 8 respectively	A1	
5	$(60 \Rightarrow) 2 \times 2 \times 3 \times 5$ or $(84 \Rightarrow) 2 \times 2 \times 3 \times 7$ or 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60 or 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84 or $2 \times 2 \times 3$	B1	Fully correct prime factor tree is B1
	12	A1	
6	$(\tan x =) \frac{41}{18}$ or $\tan^{-1} \left(\frac{41}{18} \right)$	M1	
	66.2(...) or 66.3 or 66 if M1 awarded	A1	
7a	4 and -2	A1	
7b	$(0 - 8)$ or -8	A1	

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**Melvil Dewey, Richard Rogers
Bowker, L. Pylodet, Charles Ammi
Cutter, Bertine Emma Weston, Karl
Brown, Helen E. Wessells**

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Table of Contents Mathematics 9713 O N 13 Mark Scheme

1. Understanding the eBook Mathematics 9713 O N 13 Mark Scheme
 - The Rise of Digital Reading Mathematics 9713 O N 13 Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics 9713 O N 13 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 Mathematics 9713 O N 13 Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics 9713 O N 13 Mark Scheme
 - Personalized Recommendations
 - Mathematics 9713 O N 13 Mark Scheme User Reviews and Ratings
 - Mathematics 9713 O N 13 Mark Scheme and Bestseller Lists
5. Accessing Mathematics 9713 O N 13 Mark Scheme Free and Paid eBooks
 - Mathematics 9713 O N 13 Mark Scheme Public Domain eBooks
 - Mathematics 9713 O N 13 Mark Scheme eBook Subscription Services
 - Mathematics 9713 O N 13 Mark Scheme Budget-Friendly Options
6. Navigating Mathematics 9713 O N 13 Mark Scheme eBook Formats

- ePub, PDF, MOBI, and More
 - Mathematics 9713 O N 13 Mark Scheme Compatibility with Devices
 - Mathematics 9713 O N 13 Mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Mathematics 9713 O N 13 Mark Scheme
 - Highlighting and Note-Taking Mathematics 9713 O N 13 Mark Scheme
 - Interactive Elements Mathematics 9713 O N 13 Mark Scheme
8. Staying Engaged with Mathematics 9713 O N 13 Mark Scheme
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics 9713 O N 13 Mark Scheme
9. Balancing eBooks and Physical Books Mathematics 9713 O N 13 Mark Scheme
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics 9713 O N 13 Mark Scheme
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics 9713 O N 13 Mark Scheme
- Setting Reading Goals Mathematics 9713 O N 13 Mark Scheme
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics 9713 O N 13 Mark Scheme
- Fact-Checking eBook Content of Mathematics 9713 O N 13 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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