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Centre Number

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Monday 11 November 2024

Morning (Time: 1 hour 30 minutes)

Paper reference

1MA1/3H

Mathematics
Paper 3 (Calculator)
Higher Tier



You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB or B pencil, eraser, calculator, Formulae Sheet (enclosed). Tracing paper may be used

Treatment Outcomes

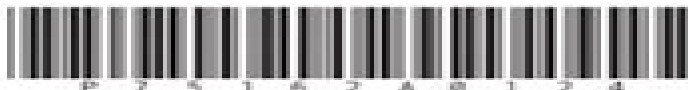
- Use **black** ink or ball-point pen.
- If pencil is used for diagrams/sketches/graphs it must be dark (HB or B).
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may be used.**
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

- The total mark for this paper is 80
- The marks for **each** question are shown in brackets
– use this as a guide as to how much time to spend on each question.

- Read each question carefully before you start to answer it.
- Try to answer every question.
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Turn over 35

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Table of Contents November 2007 3h Maths Edexcel

1. Understanding the eBook November 2007 3h Maths Edexcel
 - The Rise of Digital Reading November 2007 3h Maths Edexcel
 - Advantages of eBooks Over Traditional Books
2. Identifying November 2007 3h Maths Edexcel
 - 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 November 2007 3h Maths Edexcel
 - User-Friendly Interface
4. Exploring eBook Recommendations from November 2007 3h Maths Edexcel
 - Personalized Recommendations
 - November 2007 3h Maths Edexcel User Reviews and Ratings
 - November 2007 3h Maths Edexcel and Bestseller Lists

5. Accessing November 2007 3h Maths Edexcel Free and Paid eBooks
 - November 2007 3h Maths Edexcel Public Domain eBooks
 - November 2007 3h Maths Edexcel eBook Subscription Services
 - November 2007 3h Maths Edexcel Budget-Friendly Options
6. Navigating November 2007 3h Maths Edexcel eBook Formats
 - ePub, PDF, MOBI, and More
 - November 2007 3h Maths Edexcel Compatibility with Devices
 - November 2007 3h Maths Edexcel Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of November 2007 3h Maths Edexcel
 - Highlighting and Note-Taking November 2007 3h Maths Edexcel
 - Interactive Elements November 2007 3h Maths Edexcel
8. Staying Engaged with November 2007 3h Maths Edexcel
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers November 2007 3h Maths Edexcel
9. Balancing eBooks and Physical Books November 2007 3h Maths Edexcel
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection November 2007 3h Maths Edexcel
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine November 2007 3h Maths Edexcel
 - Setting Reading Goals November 2007 3h Maths Edexcel
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of November 2007 3h Maths Edexcel
 - Fact-Checking eBook Content of November 2007 3h Maths Edexcel
 - 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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