

Sing Yin Secondary School
First Term Examination, 2013 – 2014
Mathematics I

Form 3
Full marks: 100

Time allowed: 1.5 hours

- Answer ALL questions.
- Unless otherwise specified, all working must be clearly shown.
- The diagrams in this paper are not necessarily drawn to scale.
- Unless otherwise specified, numerical answers should either be exact or correct to 3 significant figures.

1. Convert 2 846 into a hexadecimal number. Show your steps. (3 marks)

2. Rationalize $\frac{2}{\sqrt{3}-1}$. (3 marks)

3. Simplify $\frac{\sqrt[3]{xy^2}}{xy^{-2}}$ and express the answer with positive indices. (4 marks)

4. Simplify $\sqrt{15}(\sqrt{12} + \sqrt{3})$. (4 marks)

5. Express $1.08\bar{3}$ in the form of $\frac{a}{b}$ where a and b are positive integers. (4 marks)

6. Simplify $\frac{5 \times 10^{80}}{2.54 \times 10^{-2014} - 1.35 \times 10^{-2012}}$ and express the answer in scientific notation. (5 marks)

7. The mode and the median of five integers a, b, c, d and e are 4 and 7 respectively, where $a \leq b \leq c \leq d \leq e$.

(a) Write down the values of a, b and c .

(b) Given that the mean of a, b, c, d and e is 6.6. Find the values of d and e .

(6 marks)

8. In the figure, $PQRS$ is a parallelogram and QT is the angle bisector of $\angle PQR$. QTU and USR are straight lines. $\angle TUS = 55^\circ$. Find $\angle UTS$.

(4 marks)



9. S3X Class was asked how many times they visited the museum last year. The mean of the number of visits is 2.6 and the results are shown in the table below:

Number of visits	1	2	3	4
Number of people	7	10	8	n

(a) Find n .

(b) Write down the median number of visits.

(c) Write down the mode(s) number of visits.

(d) If another class S3Y of 40 students was asked the same question and the overall mean number of visits for two classes was 2.48, find the mean number of visits for S3Y.

(6 marks)

10. Solve $\frac{x+5}{3} > 1-2x$ or $-x-1 \leq 0$ and represent the solution graphically. (6 marks)

11. Solve $5^x + 5^{x+1} = 750$. (4 marks)

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Table of Contents Nmahtematics Past Exam Paperr

1. Understanding the eBook Nmahtematics Past Exam Paperr
 - The Rise of Digital Reading Nmahtematics Past Exam Paperr
 - Advantages of eBooks Over Traditional Books
2. Identifying Nmahtematics Past Exam Paperr
 - 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 Nmahtematics Past Exam Paperr
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nmahtematics Past Exam Paperr
 - Personalized Recommendations
 - Nmahtematics Past Exam Paperr User Reviews and Ratings
 - Nmahtematics Past Exam Paperr and Bestseller Lists
5. Accessing Nmahtematics Past Exam Paperr Free and Paid eBooks

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