

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 $\frac{\sqrt[3]{xy^2}}{xy^{-3}}$ 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)

Maths Secondary Past Question Paper

Arturo Cuomo



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Table of Contents Maths Secondary Past Question Paper

1. Understanding the eBook Maths Secondary Past Question Paper
 - The Rise of Digital Reading Maths Secondary Past Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Secondary Past Question Paper
 - 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 Maths Secondary Past Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Secondary Past Question Paper
 - Personalized Recommendations
 - Maths Secondary Past Question Paper User Reviews and Ratings
 - Maths Secondary Past Question Paper and Bestseller Lists
5. Accessing Maths Secondary Past Question Paper Free and Paid eBooks
 - Maths Secondary Past Question Paper Public Domain eBooks
 - Maths Secondary Past Question Paper eBook Subscription Services
 - Maths Secondary Past Question Paper Budget-Friendly Options

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