

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 Form Maths Past Paper

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

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