

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 $a \leq b \leq c \leq d \leq e$.

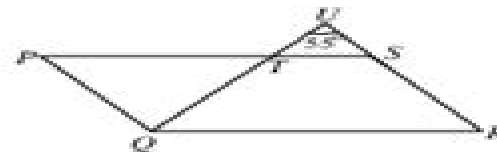
(a) Write down the values of a, b and c .

(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)

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Table of Contents Maths Past Exam Question Papers With Solutions

1. Understanding the eBook Maths Past Exam Question Papers With Solutions
 - The Rise of Digital Reading Maths Past Exam Question Papers With Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Past Exam Question Papers With Solutions
 - 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 Past Exam Question Papers With Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Past Exam Question Papers With Solutions
 - Personalized Recommendations

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

- 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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