

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 Grade 1mathematics Previous Question Papers

1. Understanding the eBook Grade 1mathematics Previous Question Papers
 - The Rise of Digital Reading Grade 1mathematics Previous Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1mathematics Previous Question Papers
 - 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 Grade 1mathematics Previous Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1mathematics Previous Question Papers
 - Personalized Recommendations

- Grade 1mathematics Previous Question Papers User Reviews and Ratings
- Grade 1mathematics Previous Question Papers and Bestseller Lists
- 5. Accessing Grade 1mathematics Previous Question Papers Free and Paid eBooks
 - Grade 1mathematics Previous Question Papers Public Domain eBooks
 - Grade 1mathematics Previous Question Papers eBook Subscription Services
 - Grade 1mathematics Previous Question Papers Budget-Friendly Options
- 6. Navigating Grade 1mathematics Previous Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 1mathematics Previous Question Papers Compatibility with Devices
 - Grade 1mathematics Previous Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 1mathematics Previous Question Papers
 - Highlighting and Note-Taking Grade 1mathematics Previous Question Papers
 - Interactive Elements Grade 1mathematics Previous Question Papers
- 8. Staying Engaged with Grade 1mathematics Previous Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 1mathematics Previous Question Papers
- 9. Balancing eBooks and Physical Books Grade 1mathematics Previous Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 1mathematics Previous Question Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 1mathematics Previous Question Papers
 - Setting Reading Goals Grade 1mathematics Previous Question Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 1mathematics Previous Question Papers
 - Fact-Checking eBook Content of Grade 1mathematics Previous Question Papers

- 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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