

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 Maths Past Papers Grade 1

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

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

- 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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