

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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Tobias Bleicker



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Table of Contents Maths Papers Kslevel 7

1. Understanding the eBook Maths Papers Kslevel 7
 - The Rise of Digital Reading Maths Papers Kslevel 7
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Papers Kslevel 7
 - 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 Papers Kslevel 7
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Papers Kslevel 7
 - Personalized Recommendations
 - Maths Papers Kslevel 7 User Reviews and Ratings
 - Maths Papers Kslevel 7 and Bestseller Lists
5. Accessing Maths Papers Kslevel 7 Free and Paid eBooks
 - Maths Papers Kslevel 7 Public Domain eBooks
 - Maths Papers Kslevel 7 eBook Subscription Services
 - Maths Papers Kslevel 7 Budget-Friendly Options

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