

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 $\frac{\sqrt[3]{xy^2}}{xy^{-\frac{1}{2}}}$ 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 $\frac{5 \times 10^{10}}{2.54 \times 10^{-2014} - 1.35 \times 10^{-2012}}$ 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 $a \leq b \leq c \leq d \leq e$.

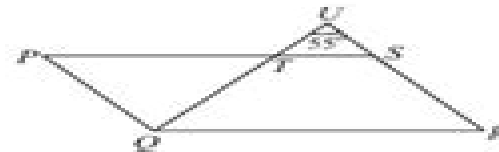
(a) Write down the values of a , b and c .

(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	x

(a) Find x .

(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)

Form Mathematics Exam Paper

Lauren Gardner



Form Mathematics Exam Paper:

Form Mathematics Exam Paper Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Form Mathematics Exam Paper**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Form Mathematics Exam Paper

1. Understanding the eBook Form Mathematics Exam Paper
 - The Rise of Digital Reading Form Mathematics Exam Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Form Mathematics Exam 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 a Form Mathematics Exam Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Form Mathematics Exam Paper
 - Personalized Recommendations
 - Form Mathematics Exam Paper User Reviews and Ratings

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