## Sing Yin Secondary School First Term Examination, 2013 – 2014 Mathematics 1

#### 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.

Convert 2 846 into a hexadecimal number. Show your steps.

(3 marks)

Rationalize <sup>2</sup>/<sub>√3-1</sub>.

(3 marks)

3. Simplify  $\frac{\sqrt[4]{xy^2}}{xy^{-2}}$  and express the answer with positive indices.

(4 marks)

Simplify √15(√12 + √3).

(4 marks)

5. Express 1.083 in the form of  $\frac{a}{b}$  where a and b are positive integers.

(4 marks)

6. Simplify  $\frac{5\times10^{10}}{2.54\times10^{-2014}-1.35\times10^{-2012}}$  and express the answer in scientific notation.

(5 marks)

 The mode and the median of five integers a, b, c, d and e are 4 and 7 respectively, where a ≤ b ≤ c ≤ d ≤ e.

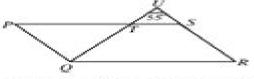
(a) Write down the values of a, b and c.

(b) Given that the mean of a, b, c, d and e is 6.6. Find the values of d and e.

(6 marks)

 In the figure, PQRS is a parallelogram and QT is the angle bisector of ∠PQR. QTU and USR are straight lines. ∠TUS = 55°. Find ∠UTS.

(4 marks)



 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	

(a) Find a.

(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  $-x-1 \le 0$  and represent the solution graphically. (6 marks)

11. Solve  $5^x + 5^{x+1} = 750$ .

(4 marks)

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**WJ Hussar** 

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# **Table of Contents Form Maths Exams Past Papers**

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

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