

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 $\frac{\sqrt{xy^2}}{xy^{-2}}$ 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)

Year 5 Maths Past Paper

Lingjun Ying



Year 5 Maths Past Paper:

Year 5 Maths Past Paper Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Year 5 Maths Past Paper**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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