

Sing Yin Secondary School
First Term Examinations, 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 $\frac{\sqrt[3]{xy^2}}{xy \cdot \sqrt[3]{z^2}}$ and express the answer with positive indices. (4 marks)

4. Simplify $\sqrt{15}(\sqrt{12} + \sqrt{3})$. (4 marks)

5. Express 1.083 in the form of $\frac{a}{b}$ where a and b are positive integers. (4 marks)

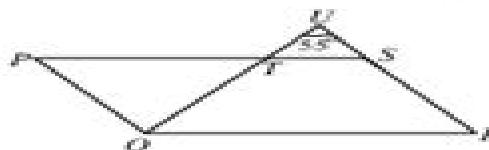
6. Simplify $\frac{5 \times 10^{10}}{2.54 \times 10^{-2014} - 1.35 \times 10^{-2012}}$ and express the answer in scientific notation. (5 marks)

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	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

Yan Bai

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South African national bibliography ,1995 *The Commercial*

& Financial Chronicle and Hunt's Merchants' Magazine ,1880 **GCSE Maths Foundation** Keith Gordon,2010-04-23 Be ready for GCSE maths 2010 with this new all in one revision guide and exam practice workbook **GCSE Maths for Edexcel A+B+AQA B+OCR: Higher** Keith Gordon,2010 Be ready for GCSE maths 2010 with this new all in one revision guide and exam practice workbook **Australian Books in Print 1998** Bowker,1998-04 excellent coverage essential to worldwide bibliographic coverage AMERICAN REFERENCE BOOKS ANNUAL This comprehensive reference provides current finding ordering information on more than 75 000 in print books published in or about Australia or written by Australian authors organized by title author keyword You'll also find brief profiles of more than 7 000 publishers distributors whose titles are represented as well as information on trade associations local agents of overseas publishers literary awards more From D W Thorpe

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University correspondent and University correspondence college magazine (and The Educational review) ,1890

The Children's Buyer's Guide ,2006 *Minutes and Votes and Proceedings of the Parliament, with Papers Presented to Both Houses* Western Australia. Parliament,1958 **Zimbabwe Books in Print** ,1998 **Handbook of Agricultural Education, 1983** Association of Indian Universities,1983 **The Schoolmasters' yearbook & (educational) directory** ,1906

Children's Books in Print, 2007 ,2006 **Oxford Secondary English** John Seely,1982 This Students Book provides An illustrated anthology of fiction and fact prose and poetry Thematic units with word study exercises and puzzles and games Special units presenting imaginary characters and situations either fantastic or adventurous to give scope for extended writing Explanations and exercises on language skills such as spelling letter writing the from of sentences punctuation script

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