

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)

Year 5 Maths Past Paper

Jeffrey Herbst, Greg Mills



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How South Africa Works Jeffrey Herbst,Greg Mills,2015-07-01 The overwhelming challenge that South Africa faces and has to date failed to address is unemployment which falls especially on African youths who were promised a better future after 1994 If the

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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

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The 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 form of sentences

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