

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  $a \leq b \leq c \leq d \leq e$ .

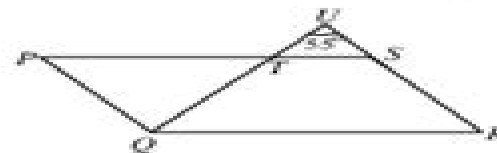
(a) Write down the values of  $a, b$  and  $c$ .

(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

**M Mosston**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the 'M Mosston' text.

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**Examination papers** Royal university of Ireland,1894      **Report** British and Foreign School Society,1899

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**Parliamentary Papers** Great Britain. Parliament. House of Commons,1892      **Railway News, Finance and Joint-stock Companies' Journal** ,1897      Report of the British and Foreign School Society British and Foreign School Society,1899      **What Pupils Say** Andrew Pollard,Pat Triggs,2000 The American river has a rich literary heritage extending from Twain and Thoreau to the more recent journeys of John Graves and Jonathan Raban Following in this great tradition Franklin Burroughs chronicles a canoe voyage through the Carolinas visiting his ancestral homeland and the people who inhabit the banks of the Waccamaw River His account of this distinctive and rapidly disintegrating backwater reflects on life on and off the river topography and how this landscape echoes in the speech memories and circumstances of the people he encounters Their lives provide a kind of living archaeology and Burroughs s careful descriptions of their voices and habits open a door into history As quiet and powerful as a river itself this is a wise and beautifully written narrative of nature people and place by one of America s finest writers      *Universities Handbook* ,2010      **The Edinburgh University Calendar** University of Edinburgh,1932      *Math Educ* ,2007 Contains abstracts in the field of mathematics education extracted from documents worldwide      *The Children's Buyer's Guide* ,2007      *Parliamentary Papers* Great Britain. Parliament. House of Commons,1971      **Annual Report of the Health Department of the City of Boston for the Year ...** Boston (Mass.). Board of Health (1872-1914),1914      Report of the Ministry of Education for the Year ... Tonga. Ministry of Education,2002  
Annual Report of the Minister for Education and Cultural Activities Queensland. Department of Education,1977      *Year 12* Margaret Batten,1988 The students in this study came from fourteen government schools in Victoria They were enrolled either in a traditional Group 1 course or the STC course Both courses led to the award of the Higher School Certificate The study identified differences in perception of students in the two types of Year 12 course and in the ways students perceptions of themselves and their courses differed over time The author found that STC Students were much more positive about the benefits of their course and its lasting influence on their development She concluded that there were features of the STC course that would benefit all Year 12 students student participation and cooperative learning flexible assessment and the STC s more comprehensive preparation for young adulthood      **British Books in Print** ,1970      *Annual Report India.* Ministry of Labour,2001      **The New Zealand Mathematics Magazine** ,1988      **Report** Isle of Man. Board of

Education, 1951

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