

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)

# Maths Secondary Past Question Paper

**Camilla Rothe**



## **Maths Secondary Past Question Paper:**

## Reviewing **Maths Secondary Past Question Paper**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Maths Secondary Past Question Paper**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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