

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  $\frac{\sqrt[3]{xy^2}}{xy^{-2}}$  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

**University of Melbourne**

The logo of the University of Melbourne, featuring a stylized red and white circular emblem.

**Year 5 Maths Past Paper:**

## Adopting the Beat of Appearance: An Psychological Symphony within **Year 5 Maths Past Paper**

In some sort of eaten by displays and the ceaseless chatter of instantaneous transmission, the melodic beauty and emotional symphony developed by the published term usually diminish into the backdrop, eclipsed by the constant sound and distractions that permeate our lives. However, located within the pages of **Year 5 Maths Past Paper** a charming fictional treasure filled with organic thoughts, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, that charming masterpiece conducts readers on an emotional journey, well unraveling the hidden songs and profound affect resonating within each carefully crafted phrase. Within the depths of this emotional review, we will explore the book is key harmonies, analyze its enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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