

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)

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Clifford Lane



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web alat penetas telur berbasis mikrokontroler ini di rancang untuk dapat mengendalikan kadar suhu dan kelembaban di dalam ruangan mesin penetas dan juga mengendalikan motor dc untuk dapat memutar balikkan telur pada saat masa penetasan secara otomatis yang membutuhkan beberapa langkah untuk merancang sistem ini yaitu diperlukan keb

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web rak telur otomatis pada mesin penetas telur tenaga hybrid dirancang menggunakan sistem rak telur yang bergeser kanan dan kiri secara otomatis yang berfungsi memutar telur agar hangatnya merata