

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 $\frac{\sqrt[3]{xy^2}}{xy^{-\frac{1}{2}}}$ 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 $\frac{5 \times 10^{10}}{2.54 \times 10^{-2014} - 1.35 \times 10^{-2012}}$ 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 $a \leq b \leq c \leq d \leq e$.

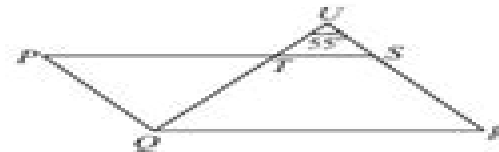
(a) Write down the values of a , b and c .

(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	x

(a) Find x .

(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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JA Banks



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web father bless the entrance priest blessed be the entrance of the saints the deacon opens the sanctuary doors and places the gospel on the altar the other clergy enter the sanctuary the priests kissing the gospel then the altar each saying in a low voice priest hail word of eternal life

the divine liturgy of our father among the saints - Jul 03 2023

web h e o r d s r a y e r c our father who art in heaven hallowed be thy name thy kingdom come thy will be done on earth as it is in heaven give us this day our daily bread and forgive us our trespasses as we forgive those who trespass against us and lead us not into temptation but deliver us from evil

the divine liturgy of our father among the saints john - Mar 31 2023

web the divine liturgy prayers of thanksgiving after communion festal and daily dismissals on the nativity of christ on the circumcision on theophany on the meeting of the lord on transfiguration on palm sunday on the same sunday in the evening on great thursday at matins of holy friday the passion gospels on holy and great friday