

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)

Maths Papers Kslevel 7

Margaret Roberts, Dot Constable

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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the mentor will find themselves and deals with the tasks and responsibilities they will have to consider in the completion of their daily duties Topics covered include being an effective learning mentor working within school systems and structures identifying pupils at risk of underachieving suggested strategies for supporting pupils how to access appropriate training relationships with colleagues Intended for mentors in schools and training providers working with mentors this handbook is a fully comprehensive guide *Learning to Teach Mathematics in the Secondary School* Sue Johnston-Wilder, Peter Johnston-Wilder, David Pimm, 2005-01-14 Learning to Teach Mathematics in the Secondary School covers a wide range of issues in the teaching of mathematics and gives supporting activities to students to enable them to translate theory into practice Topics covered include mathematics in the National Curriculum different teaching approaches using ICT mathematics education for pupils with special needs in mathematics assessment and public examinations teaching mathematics post 16 professional development **TARGET SNAP 2018 (Past Papers 2005 - 2017) + 5 Mock Tests 10th Edition** Disha Experts, 2018-11-19 TARGET SNAP 2018 Past 2005 2017 5 Mock Tests contains the detailed solutions of SNAP Question Papers from 2005 to 2017 The book also contains 5 Mock tests designed exactly as per the latest pattern of SNAP The book also contains a General Awareness Question Bank containing 100 MCQ s involving current issues similar to the ones asked in the actual exam As the pattern of SNAP is changing every year so different patterns have been incorporated in the Mock Tests

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