

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  $\frac{\sqrt{xy^2}}{xy^{-2}}$  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

**Minjie Lin**



## Year 5 Maths Past Paper:

**2024-25 CTET/TET Class 1 to V Mathematics Solved Papers** YCT Expert Team , 2024 25 CTET TET Class 1 to V Mathematics Solved Papers 864 1495 E This book contains 173 sets of the previous year s papers and 5190 objective questions *Oswaal ICSE 10 Sample Question Papers Class 9 Physics, Chemistry, Biology & Maths (Set of 4 Books) For 2025 Exam (Based On The Latest CISCE/ICSE Specimen Paper)* Oswaal Editorial Board,2024-08-27 Description of the product This product covers the following Fresh Relevant with the Latest Typologies of Questions Score Boosting Insights with 400 Questions 150 Concepts approx Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready Practice with 5 Solved 5 Self Assessment Papers with Hints Online Courses with Oswaal 360 Courses and sample Papers to enrich the learning journey further **EHF Science Olympiad Solved Question Paper Class 9 (2013)** EHF Learning Media Pvt Ltd,Top 10 teachers, This will help the aspirants to assess the pattern of the real examination paper practice and prepare for cracking the top ranks Excel Practice Selective Schools and Scholarship Tests James A. Athanasou,1997 Excel Test Skills Selective Schools and Scholarship Tests Years 5 6 is a comprehensive study guide for the selective schools and scholarship tests usually undertaken in Year 6 The book contains sections on all four types of tests Maths English General Ability and Written Expression so students can prepare for exams with a minimum of stress and maximum results In this book your child will find an introductory section on how best to prepare for selective schools and scholarship examinations hundreds of practice questions for Mathematics English General Ability and Written Expression answers to all multiple choice questions explanations that outline the thinking skills required for each question a complete trial test paper *How South Africa Works* Jeffrey Herbst,Greg Mills,2015-07-01 The overwhelming challenge that South Africa faces and has to date failed to address is unemployment which falls especially on African youths who were promised a better future after 1994 If the current unemployment challenge is not addressed it will be impossible to sustainably lift many millions of people out of poverty How South Africa Works reviews the country s major economic achievements over the past two decades Through numerous interviews with politicians business leaders and analysts it examines the challenges and opportunities across key productive sectors including agriculture manufacturing services and mining illustrative of the policy challenges that leaders face It scrutinises the social grant and education systems to understand if South Africa has established mechanisms for people not only to escape destitution but be ready to be employed and identifies steps that some of South Africa s most notable entrepreneurs have taken to build world class enterprises Recognising the essential challenge to cultivate more employers to employ people How South Africa Works concludes by offering an agenda and active steps for greater competitiveness for government business and labour *The Schoolmasters' yearbook & (educational) directory* ,1906 **South African national bibliography** ,1997 Classified list with author and title index **The Economist** ,1910 **Chemist and Druggist** ,1924 *The New Zealand University Calendar* University of New Zealand,1930

Commonwealth Universities Yearbook ,1922    *Gas Journal* ,1927    The Australian Mathematics Teacher ,2003  
The Commercial & Financial Chronicle and Hunt's Merchants' Magazine ,1880    Universities Handbook ,2010  
Calendar University of Melbourne,1923    **The Schoolmasters Yearbook and Directory** ,1908    *Minutes and Votes  
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