

GRADE 10 MATHEMATICS MARCH TEST

QUESTION 1

1.1 Copy and complete the following table on your answer sheet:
Only tick in the applicable columns.

(4)

	$\sqrt{2}$	$\sqrt{3}$	$\sqrt{5}$	$\sqrt{7}$	$\sqrt{10}$	$\sqrt{12}$	$\sqrt{15}$
$\sqrt{3} + \sqrt{2}$							
$\sqrt{5}$							
$\sqrt{10}$							
$\sqrt{7}$							

1.2 Determine between which integers the following irrational number lie:

(2)

1.3 Use the ladder method to give the prime factors of 5104.

(5)

QUESTION 2

Factorise the following expressions:

2.1 $x^2 - 49$

(1)

2.2 $2x^2 - 12x + 10$

(2)

2.3 $4x^2 - 1$

(2)

2.4 $3x^2 + 9x - 12$

(3)

QUESTION 3

Simplify the following expressions:

3.1 $(x - 5)(3x + 2)$

(2)

3.2 $\frac{1}{x} + \frac{1}{x+1}$

(3)

3.3 $\frac{5x^2 + 25x}{5x}$

(2)

QUESTION 4

Simplify the following using the exponential laws.

4.1 $\frac{1}{x^3}$

(1)

4.2 x^0

(2)

Solve for x :

4.3 $2^x - 5 = 11$

(2)

QUESTION 5

Solve for x :

5.1 $(x - 3)(x + 5) = 0$

(2)

5.2 $3x + 2 = 2x - 1$

(2)

5.3 $\frac{1}{x+1} = \frac{1}{x-1}$

(4)

5.4 $\frac{1+2x}{x} + 5 > 8$

(2)

5.5 Solve x and y simultaneously:

$$\begin{cases} 2x + 3y = 10 \\ 3x - 2y = 1 \end{cases}$$

(3)

5.6 Jane is 3 years older than her sister. Together they are 19 years old.

(4)

(21)

QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

(2)

6.1.2

(2)

6.1.3

(2)

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elementary and secondary educators and teacher educators

Mathematics and Multi-Ethnic Students Yvelyn

Germain-McCarthy,2017-05-25 Mathematics and Multi Ethnic Students provides detailed profiles of teachers across the nation who have implemented effective mathematics instruction for diverse student populations In this revised edition Yvelyne Germain McCarthy expands upon the popular case studies and adds two new chapters to highlight the latest educational research and practices that are reflected in the case studies A third new chapter introduces the concept of the Life Long Learning Laboratory where courageous questions on issues such as the impact of race on student learning are discussed Featuring useful framing tools including the Discussion with Colleagues and Commentary sections Mathematics and Multi Ethnic Students translates concrete instances of access and equity into generalized problem solving methods for promoting ethnic diversity across grade levels An important resource for pre service and in service educators researchers administrators and policy makers this volume highlights the work of teachers who have gone beyond mere awareness of reform recommendations in mathematics instruction By uniting the goals of multicultural education with those of the mathematics curriculum educators will learn to conceptualize and implement best practices for effective equitable teaching and learning of mathematics for their students

Parliamentary Debates, House of the People India. Parliament. Lok Sabha,2013-03-06

Teaching Elementary STEM Education Sherri Cianca,2019-07-19 This textbook offers practical guidelines for integrating science technology engineering and mathematics into the elementary classroom in the context of addressing real world problems and cultivating in students high level thinking and problem solving skills Designed to equip teachers and future teachers with tools to create and implement standards based STEM curriculum and cognitively demanding tasks author Sherri Cianca offers hands on easily implemented strategies that foster student reasoning autonomy and humanity This fresh approach to STEM teaching empowers teachers preservice and inservice and other leaders to better understand the standards and better design effective instructional practices The chapters work together to advance teachers abilities to achieve mastery level understanding of content translate standards into student friendly curriculum and create a robust learning environment Each chapter contains probes to uncover incomplete and inaccurate conceptions and to focus attention on key learning elements Chapter summaries and Reflect and Apply sections reinforce professional development and appendices expand on chapter content and provide rich examples of STEM units curriculum and assessment criteria Dr Cianca s vision is that teachers serve as well equipped change agents that will empower their students to transfer STEM learning into applications that will impart a positive impact on our future world

Make It Happen Kim Bailey,Chris Jakicic,2018-12-07 Ensure every educator is engaged in the right work with a collective focus on improved student learning

Aligned to the Professional Learning Communities PLC at Work model this resource includes instructional coaching tools processes protocols templates tips and strategies designed to support the multidimensional work of instructional coaches and PLC training Each chapter includes action steps and reflective coaching activities as well as suggestions for navigating some of the most common issues instructional coaches face Use this book to understand the unique requirements of instructional

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Teaching Computing Henry M. Walker, 2018-04-24 Teaching can be intimidating for beginning faculty Some graduate schools and some computing faculty provide guidance and mentoring but many do not Often a new faculty member is assigned to teach a course with little guidance input or feedback **Teaching Computing A Practitioner's Perspective** addresses such challenges by providing a solid resource for both new and experienced computing faculty The book serves as a practical easy to use resource covering a wide range of topics in a collection of focused down to earth chapters Based on the authors extensive teaching experience and his teaching oriented columns that span 20 years and informed by computing education research the book provides numerous elements that are designed to connect with teaching practitioners including A wide range of teaching topics and basic elements of teaching including tips and techniques Practical tone the book serves as a down to earth practitioners guide Short focused chapters Coherent and convenient organization Mix of general educational perspectives and computing specific elements Connections between teaching in general and teaching computing Both historical and contemporary perspectives This book presents practical approaches tips and techniques that provide a strong starting place for new computing faculty and perspectives for reflection by seasoned faculty wishing to freshen their own teaching

The 2014-15 Budget California. Legislature. Joint Legislative Budget Committee. Legislative Analyst, 2014

The 2016-17 Budget California. Legislature. Joint Legislative Budget Committee. Legislative Analyst, 2016

Math Advantage, Grade 8 Grace M. Burton, Harcourt Brace, 1998-05-22

Yojana, 2014

Commonwealth Universities

Yearbook, 1986

The United States Army and Navy Journal and Gazette of the Regular and Volunteer Forces, 1876

Mathematical Reviews, 2003

Scientific American, 1900

Canadian Journal of Physics, 2013

Statistics Robin

H. Lock, Patti Frazer Lock, Kari Lock Morgan, Eric F. Lock, Dennis F. Lock, 2020-05-07 *Statistics Unlocking the Power of Data* 2nd Edition continues to utilize these intuitive methods like randomization and bootstrap intervals to introduce the fundamental idea of statistical inference These methods are brought to life through authentically relevant examples and are accessible at very early stages of the text Applications are drawn from a wide variety of disciplines chosen primarily on the

basis of perceived interest to students and instructors Problems and exercises are plentiful and span a wide range of difficulty levels from very straightforward short answer problems to extended projects **Canadian Journal of Fisheries and Aquatic Sciences** ,2014 *Arts & Humanities Citation Index* ,1995 A multidisciplinary index covering the journal literature of the arts and humanities It fully covers 1 144 of the world s leading arts and humanities journals and it indexes individually selected relevant items from over 6 800 major science and social science journals

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Table of Contents 2013 Maths Grade March Common Question Paper

1. Understanding the eBook 2013 Maths Grade March Common Question Paper
 - The Rise of Digital Reading 2013 Maths Grade March Common Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying 2013 Maths Grade March Common Question Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 2013 Maths Grade March Common Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2013 Maths Grade March Common Question Paper
 - Personalized Recommendations
 - 2013 Maths Grade March Common Question Paper User Reviews and Ratings

- 2013 Maths Grade March Common Question Paper and Bestseller Lists
- 5. Accessing 2013 Maths Grade March Common Question Paper Free and Paid eBooks
 - 2013 Maths Grade March Common Question Paper Public Domain eBooks
 - 2013 Maths Grade March Common Question Paper eBook Subscription Services
 - 2013 Maths Grade March Common Question Paper Budget-Friendly Options
- 6. Navigating 2013 Maths Grade March Common Question Paper eBook Formats
 - ePUB, PDF, MOBI, and More
 - 2013 Maths Grade March Common Question Paper Compatibility with Devices
 - 2013 Maths Grade March Common Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2013 Maths Grade March Common Question Paper
 - Highlighting and Note-Taking 2013 Maths Grade March Common Question Paper
 - Interactive Elements 2013 Maths Grade March Common Question Paper
- 8. Staying Engaged with 2013 Maths Grade March Common Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2013 Maths Grade March Common Question Paper
- 9. Balancing eBooks and Physical Books 2013 Maths Grade March Common Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2013 Maths Grade March Common Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 2013 Maths Grade March Common Question Paper
 - Setting Reading Goals 2013 Maths Grade March Common Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2013 Maths Grade March Common Question Paper
 - Fact-Checking eBook Content of 2013 Maths Grade March Common Question Paper
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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