

## 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.

	N	N <sub>1</sub>	Z	Q	Q'	X	X'
$\sqrt{9} + 1$							
$\frac{1}{2}$							
0,75/3							
$\sqrt{5}$							

- 1.2 Determine between which integers the following irrational number lies:

$$\sqrt{17}$$

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

*Not to scale, not to be used for marking.*

### QUESTION 2

Factorise the following expressions:

2.1  $x^2 - 49$

2.2  $2x^2 + 5x - 3$

2.3  $6x^2 - 13x + 6$

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

### QUESTION 3

Simplify the following expressions:

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

3.2  $6x^2 - 12x + 6$

3.3  $\frac{3x^2 + 12x}{3x}$

### QUESTION 4

Simplify the following using the exponential laws.

4.1  $\frac{1}{x^2}$

4.2  $\frac{x^3 \cdot x^2}{x^5}$

Solve for  $x$ :

4.3  $2^x - 5 = 11$

### QUESTION 5

Solve for  $x$ :

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

5.2  $3x^2 + 10x + 7 = 0$

5.3  $\frac{1}{x} + \frac{1}{x+1} = \frac{1}{x+2}$

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

5.5 Solve  $x$  and  $y$  simultaneously:

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

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

*Not to scale, not to be used for marking.*

### QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

6.1.2

6.1.3

# Grade March Mathematics Common Paper 2013

**Nicki Newton**



## **Grade March Mathematics Common Paper 2013:**

**The Math Teacher's Toolbox** Bobson Wong, Larisa Bukalov, 2020-04-09 Math teachers will find the classroom tested lessons and strategies in this book to be accessible and easily implemented in the classroom The Teacher's Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Math Teacher's Toolbox contains hundreds of student friendly classroom lessons and teaching strategies Clear and concise chapters fully aligned to Common Core math standards cover the underlying research required technology practical classroom use and modification of each high value lesson and strategy This book employs a hands on approach to help educators quickly learn and apply proven methods and techniques in their mathematics courses Topics range from the planning of units lessons tests and homework to conducting formative assessments differentiating instruction motivating students dealing with math anxiety and culturally responsive teaching Easy to read content shows how and why math should be taught as a language and how to make connections across mathematical units Designed to reduce instructor preparation time and increase student engagement and comprehension this book Explains the usefulness application and potential drawbacks of each instructional strategy Provides fresh activities for all classrooms Helps math teachers work with ELLs advanced students and students with learning differences Offers real world guidance for working with parents guardians and co teachers The Math Teacher's Toolbox Hundreds of Practical ideas to Support Your Students is an invaluable source of real world lessons strategies and techniques for general education teachers and math specialists as well as resource specialists special education teachers elementary and secondary educators and teacher educators

**Bringing the Common Core Math Standards to Life** Yvelyne Germain-McCarthy, Ivan Gill, 2014-11-20 As high school math teachers shift to the Common Core State Standards the question remains What do the standards actually look like in the classroom This book answers that question by taking you inside of real Common Core classrooms across the country You ll see how exemplary teachers are meeting the new requirements and engaging students in math Through these detailed examples of effective instruction you will uncover how to bring the standards to life in your own classroom Special Features A clear explanation of the big shifts happening in the classroom as a result of the Common Core State Standards Real examples of how exemplary teachers are using engaging strategies and tasks to teach algebra geometry trigonometry statistics mathematics across the curriculum and more A detailed analysis of each example to help you understand why it is effective and how you can try it with your own students Practical ready to use tools you can take back to your classroom including unit plans and classroom handouts

[Common Core Language Arts and Math, Grade 1](#) Spectrum, 2014-02-03 Help first grade students master Common Core skills such as comparing two texts on the same topic

understanding word roots solving word problems and more with Common Core Language Arts and Math Spectrum workbooks Take the mystery out of the Common Core with these unique and timely Spectrum 128 page workbooks These information packed resources for kindergarten through grade 6 provide an overview of the standards for each grade level along with practice activities for school success Includes explicit references to the standards on each practice page that will let parents know that activities provide direct support for skills being taught at school

**The Education Invasion** Joy Pullmann, 2017-03-14 Most Americans had no idea what Common Core was in 2013 according to polls But it had been creeping into schools nationwide over the previous three years and children were feeling its effects They cried over math homework so mystifying their parents could not help them even in elementary school They read motley assortments of informational text instead of classic literature They dreaded the high stakes tests in unfamiliar formats that were increasingly controlling their classrooms How did this latest and most sweeping reform of American education come in mostly under the radar Joy Pullmann started tugging on a thread of reports from worried parents and frustrated teachers and it led to a big tangle of history and politics intrigue and arrogance She unwound it to discover how a cabal of private foundation honchos and unelected public officials cooked up a set of rules for what American children must learn in core K 12 classes and how the Obama administration pressured states to adopt them Thus a federalized education scheme took root despite legal prohibitions against federal involvement in curriculum Common Core and its testing regime were touted as an absolute game changer in public education yet the evidence so far suggests that kids are actually learning less under it Why then was such a costly and disruptive agenda imposed on the nation s schools Who benefits And how can citizens regain local self governance in education so their children s minds will be fed a more nourishing intellectual diet and be protected from the experiments of emboldened bureaucrats The Education Invasion offers answers and remedies

*Teaching Secondary and Middle School Mathematics* Daniel J. Brahier, 2020-04-01 Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The sixth edition has been updated and expanded with particular emphasis on the latest technology resources and standards The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as

well as how to manage a classroom for success Features include The entire text has been reorganized so that assessment takes a more central role in planning and teaching Unit 3 of 5 now addresses the use of summative and formative assessments to inform classroom teaching practices A new feature Links and Resources has been added to each of the 13 chapters While the book includes a substantial listing of citations and resources after the chapters five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research materials and resources that support the teaching of mathematics A Quick Reference Guide has been added to the front of the book to assist the reader in identifying the most useful chapter features by topic A significant revision to Chapter 13 now includes discussions of common teaching assessments used for field experiences and licensure as well as a discussion of practical suggestions for success in methods and student teaching experiences Chapter 9 on the practical use of classroom technology has been revised to reflect the latest tools available to classroom teachers including apps that can be run on handheld personal devices An updated Instructor s Manual features a test bank sample classroom activities Powerpoint slides chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at [www.routledge.com/9780367146511](http://www.routledge.com/9780367146511) *Mathematics Education* Jacqueline Dewar,Pao-sheng Hsu,Harriet Pollatsek,2016-11-26 Many in the mathematics community in the U S are involved in mathematics education in various capacities This book highlights the breadth of the work in K 16 mathematics education done by members of US departments of mathematical sciences It contains contributions by mathematicians and mathematics educators who do work in areas such as teacher education quantitative literacy informal education writing and communication social justice outreach and mentoring tactile learning art and mathematics ethnomathematics scholarship of teaching and learning and mathematics education research Contributors describe their work its impact and how it is perceived and valued In addition there is a chapter co authored by two mathematicians who have become administrators on the challenges of supporting evaluating and rewarding work in mathematics education in departments of mathematical sciences This book is intended to inform the readership of the breadth of the work and to encourage discussion of its value in the mathematical community The writing is expository not technical and should be accessible and informative to a diverse audience The primary readership includes all those in departments of mathematical sciences in two or four year colleges and universities and their administrators as well as graduate students Researchers in education may also find topics of interest Other potential readers include those doing work in mathematics education in schools of education and teachers of secondary or middle school mathematics as well as those involved in their professional development [Spectrum Language Arts and Math, Grade 1](#) Spectrum,2015-03-02 Spectrum R Language Arts and Math Common Core Edition for Grade 1 helps parents understand Common Core standards and helps students master essential Common Core skills Engaging practice pages and sturdy flash cards help students with

long vowels sentences vocabulary place value telling time and more Spectrum R Language Arts and Math Common Core Edition helps take the mystery out of current academic standards for busy parents This unique resource for kindergarten to grade 5 provides easy to understand overviews of Common Core learning standards for each grade level Each title includes more than 100 skill building practice pages and more than 100 sturdy cut apart flash cards The handy cards make it easy to review important skills quickly at home or on the go You will find all of the focused standards based practice your child needs to succeed at school this year Teaching Math to Multilingual Students, Grades K-8 Kathryn B. Chval, Erin Smith, Lina Trigos-Carrillo, Rachel J. Pinnow, 2020-12-21 Using strengths based approaches to support development in mathematics It s time to re imagine what s possible and celebrate the brilliance multilingual learners bring to today s classrooms Innovative teaching strategies can position these learners as leaders in mathematics Yet as the number of multilingual learners in North American schools grows many teachers have not had opportunities to gain the competencies required to teach these learners effectively especially in disciplines such as mathematics Multilingual learners historically called English Language Learners are expected to interpret the meaning of problems analyze make conjectures evaluate their progress and discuss and understand their own approaches and the approaches of their peers in mathematics classrooms Thus language plays a vital role in mathematics learning and demonstrating these competencies in a second or third language is a challenging endeavor Based on best practices and the authors years of research this guide offers practical approaches that equip grades K 8 teachers to draw on the strengths of multilingual learners partner with their families and position these learners for success Readers will find A focus on multilingual students as leaders A strength based approach that draws on students life experiences and cultural backgrounds An emphasis on maintaining high expectations for learners capacity for mastering rigorous content Strategies for representing concepts in different formats Stop and Think questions throughout and reflection questions at the end of each chapter Try It Implementation activities student work examples and classroom transcripts With case studies and activities that provide a solid foundation for teachers growth and exploration this groundbreaking book will help teachers and teacher educators engage in meaningful humanized mathematics instruction

*The Big Lies of School Reform* Paul C. Gorski, Kristien Zenkov, 2014-03-14 The Big Lies of School Reform provides a critical interruption to the ongoing policy conversations taking place around public education in the United States today By analyzing the discourse employed by politicians lobbyists think tanks and special interest groups the authors uncover the hidden assumptions that often underlie popular statements about school reform and demonstrate how misinformation or half truths have been used to reshape public education in ways that serve the interests of private enterprise Through a thoughtful series of essays that each identify one lie about popular school reform initiatives the authors of this collection reveal the concrete impacts of these falsehoods from directing funding to shaping curricula to defining student achievement Luminary contributors including Deborah Meier Jeannie Oakes Gloria Ladson Billings and Jim Cummins explain how reform movements

affect teachers and administrators and how widely accepted mistruths can hinder genuine efforts to keep public education equitable effective and above all truly public Topics covered include common core standards tracking alternative paths to licensure and the disempowerment of teachers unions Beyond critically examining the popular rhetoric the contributors offer visions for improving educational access opportunity and outcomes for all students and educators and for protecting public education as a common good Mathematics for Social Justice Catherine A. Buell, Bonnie Shulman, 2021-11-17 Mathematics instructors are always looking for ways to engage students in meaningful and authentic tasks that utilize mathematics At the same time it is crucial for a democratic society to have a citizenry who can critically discriminate between fake and reliable news reports involving numeracy and apply numerical literacy to local and global issues This book contains examples of topics linking math and social justice and addresses both goals There is a broad range of mathematics used including statistical methods modeling calculus and basic algebra The range of social issues is also diverse including racial injustice mass incarceration income inequality and environmental justice There are lesson plans appropriate in many contexts service learning courses quantitative literacy reasoning courses introductory courses and classes for math majors What makes this book unique and timely is that the most previous curricula linking math and social justice have been treated from a humanist perspective This book is written by mathematicians for mathematics students Admittedly it can be intimidating for instructors trained in quantitative methods to venture into the arena of social dilemmas This volume provides encouragement support and a treasure trove of ideas to get you started The chapters in this book were originally published as a special issue of the journal PRIMUS Problems Resources and Issues in Mathematics Undergraduate Studies 2012-2013 College Admissions Data Sourcebook Southeast Edition , **Guided Math Lessons in Second Grade** Nicki Newton, 2021-07-15 Guided Math Lessons in Second Grade provides detailed lessons to help you bring guided math groups to life Based on the bestselling Guided Math in Action this practical book offers 16 lessons taught in a round of 3 concrete pictorial and abstract The lessons are based on the priority standards and cover fluency word problems operations and algebraic thinking and place value Author Dr Nicki Newton shows you the content as well as the practices and processes that should be worked on in the lessons so that students not only learn the content but also how to solve problems reason communicate their thinking model use tools use precise language and see structure and patterns Throughout the book you ll find tools templates and blackline masters so that you can instantly adapt the lesson to your specific needs and use it right away With the easy to follow plans in this book students can work more effectively in small guided math groups and have loads of fun along the way

**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

**2012 GCSE English results** Great Britain: Parliament: House of Commons: Education Committee,2013-06-11 The 2012 GCSE English results prompted significant controversy which ultimately resulted in an application for judicial review This report sets out the background to these events and identifies lessons to be learned The problems with GCSE English can be traced back to the 2007 09 development phase of the qualification in particular the turbulence which resulted from the shift away from a mostly linear to a modular system combined with a high proportion of controlled assessment and generous marking tolerances Exam board experts raised concerns at the time but these were not acted upon by the regulator the then interim Ofqual Further difficulties arose because of pressures from the school accountability system The problems experienced with GCSE English in 2012 highlighted serious weaknesses in the moderation of speaking and listening with consequences for grade awarding The current status of Ofqual as an independent regulator accountable to Parliament is the right one However the Coalition Government is bringing in wholesale changes to GCSEs and A levels to a tight timetable and at the same time Ofqual must have systems in place The Committee is also concerned that there is a rush towards separate exam systems for England Wales and Northern Ireland without careful reflection on what might be lost or consensus that this is the right thing to do

Common Sense Education Ernest J. Zarra III,2016-08-16 The 2015 passage of the Every Student Succeeds Act ESSA has again changed education for public schools and communities Common Core is now optional and the role of Secretary of Education has been limited by no longer incentivizing states as done under Common Core This book analyzes the new direction today s schools must pursue for student learning and their success beyond high school States and local educational agencies are once again empowered and will have more authority over curriculum and assessment Common Sense Education includes samples from these states ideas from several universities which are retooling their teacher education programs and focusing on teacher excellence as well as schools recalibrating their programs for student learning This book advocates for common sense education uses a national survey to provide parent and teacher perspectives and suggests a new paradigm for exciting twenty first century high schools

**Independent Schools Yearbook 2012-2013** none,2013-06-20 The highly



respected book of reference of sought after Independent Schools in membership of the Independent Schools Council s Associations HMC GSA The Society of Heads IAPS ISA and COBIS *Intelligent Computer Mathematics* Herman Geuvers,Matthew England,Osman Hasan,Florian Rabe,Olaf Teschke,2017-06-26 This book constitutes the refereed proceedings of the 10th International Conference on Intelligent Computer Mathematics CICM 2017 held in Edinburgh Scotland in July 2017 The 22 full papers and 3 abstracts of invited papers presented were carefully reviewed and selected from a total of 40 submissions The papers are organized in three tracks the Calculemus track examining the integration of symbolic computation and mechanized reasoning the Digital Mathematics Libraries track dealing with math aware technologies standards algorithms and processes the Mathematical Knowledge Management track being concerned with all aspects of managing mathematical knowledge in informal semi formal and formal settings An additional track Systems and Projects contains descriptions of systems and relevant projects both of which are key to a research topic where theory and practice interact on explicitly represented knowledge **How to Use Grading to Improve Learning** Susan M. Brookhart,2017-07-19 Grades are imperfect shorthand answers to What did students learn and how well In *How to Use Grading to Improve Learning* best selling author Susan M Brookhart guides educators at all levels in figuring out how to produce grades for single assignments and report cards that accurately communicate students achievement of learning goals Brookhart explores topics that are fundamental to effective grading and learning practices Acknowledging that all students can learn Supporting and motivating student effort and learning Designing and grading appropriate assessments Creating policies for report card grading Implementing learning focused grading policies Communicating with students and parents Assessing school or district readiness for grading reform The book is grounded in research and resonates with the real lessons learned in the classroom Although grading is a necessary part of schooling Brookhart reminds us that children are sent to school to learn not to get grades This highly practical book will help you put grading and learning into proper perspective offering strategies you can use right away to ensure that your grading practices actually support student learning [Transforming the Workforce for Children Birth Through Age 8](#) National Research Council,Institute of Medicine,Board on Children, Youth, and Families,Committee on the Science of Children Birth to Age 8: Deepening and Broadening the Foundation for Success,2015-07-23 Children are already learning at birth and they develop and learn at a rapid pace in their early years This provides a critical foundation for lifelong progress and the adults who provide for the care and the education of young children bear a great responsibility for their health development and learning Despite the fact that they share the same objective to nurture young children and secure their future success the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well *Transforming the Workforce for Children Birth Through Age 8* explores the science of child development particularly looking at implications for the professionals who work

with children This report examines the current capacities and practices of the workforce the settings in which they work the policies and infrastructure that set qualifications and provide professional learning and the government agencies and other funders who support and oversee these systems This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals These detailed recommendations create a blueprint for action that builds on a unifying foundation of child development and early learning shared knowledge and competencies for care and education professionals and principles for effective professional learning Young children thrive and learn best when they have secure positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress Transforming the Workforce for Children Birth Through Age 8 offers guidance on system changes to improve the quality of professional practice specific actions to improve professional learning systems and workforce development and research to continue to build the knowledge base in ways that will directly advance and inform future actions The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive and ultimately improve outcomes for children

*Changing the Course of Failure* Sandra Stotsky, 2018-05-18 The basic purpose of this book is to help policy makers at all levels of government understand that 1 widespread adolescent underachievement is not susceptible to solution by educational interventions no matter how much money is allocated to public education and 2 there are unidentified educational and civic costs to focusing on low achievement and to expecting public institutions of education for K 12 and college to solve a growing social problem Many policy makers seem to think that teachers schools are the primary cause of low achievement Educational institutions still cannot solve a non education caused problem and haven t done so for over fifty years despite all the public and private money that has been allocated The book concludes with suggested policies for addressing the damage to public education from gap closing standards and with suggested areas for policy making in order to change the current course of failure for many low achieving students

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