



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.

	P	R	T	E	V	S	N
1000							
100							
10							

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

$$\sqrt{17}$$

- 1.3 Use the ladder method to give the prime factors of 7164.

QUESTION 2

Factorise the following expressions:

- 2.1 $x^2 - 49$
- 2.2 $4x^2 - 12x + 9$
- 2.3 $x^2 - 5x + 6$
- 2.4 $3x^2 + 8x + 5$

QUESTION 3

Simplify the following expressions:

- 3.1 $(x - 3)(2x + 2)$
- 3.2 $x^2 - 4$

3.3 $\frac{2x^2 + 5x - 3}{x^2 - 4}$

QUESTION 4

Simplify the following using the exponentiation:

4.1 $2^3 \cdot 2^4$

4.2 $2^5 \div 2^2$

Solve for x:

4.3 $2^x - 8 = 2^3$

QUESTION 5

Solve for x:

5.1 $(x - 2)(x + 3) = 0$

5.2 $3(x + 2) = 2(x + 4)$

5.3 $\frac{2x + 1}{x - 1} = 3$

5.4 $\frac{1}{x} + 2 = 4$

5.5 Solve x and y simultaneously:

$$x + y = 10$$

$$x - y = 2$$

5.6 Jane is 3 years older than her sister. Together they are 18 years old.

QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

6.1.2

6.1.3

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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

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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

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

Leading Modern Learning Jay McTighe,Greg Curtis,2019-07-08 Redesign education to meet the needs of 21st century students In the second edition of *Leading Modern Learning* authors Jay McTighe and Greg Curtis outline a reworked version of their blueprint for major education reform More than a simple refresh the latest edition incorporates new insights experiences and tools that will help you implement modern learning practices in your department school or district Use this book to guide education and curriculum reform and empower modern learners Understand the necessity and value of education reform and updating school curriculum for the 21st century classroom Learn how to use a blueprint for your vision of learning mission and curriculum development to establish mission clarity and effective instruction and assessment practices Explore systems thinking and frameworks for backward design that can be utilized by school leadership to develop action plans and guide school curriculum reform for modern learning Read an all new chapter on change management and strategic planning for district and school leadership as well as new Notes From the Field which highlight how to avoid potential missteps and misunderstandings that inhibit progress Utilize the appendices and free reproducibles to further your understanding of education reform curriculum development and school leadership for modern learning A joint publication of ASCD and Solution Tree Contents Foreword Introduction Chapter 1 Creating a Futures Oriented Vision and Mission Chapter 2 From Mission to Action Chapter 3 Curriculum for Modern Learning Chapter 4 An Assessment System for Modern Learning Chapter 5 Instruction for Modern Learning Chapter 6 A Reporting System for Modern Learning Chapter 7 Leadership for Modern Learning Appendix A Sources for Futures Oriented Thinking Tools and Processes Appendix B Sample Sources and Performance Indicators for 21st Century Skills Appendix C Sample Map of Cornerstone Performance Tasks and Transfer Goals References and Resources Index *Cognitive Neuroscience Editor's Pick 2021* Lutz Jäncke,2021-08-10 **The 2016-17 Budget** California. Legislature. Joint Legislative Budget Committee. Legislative Analyst,2016 **Statistics** Robin H. Lock,Patti Frazer Lock,Kari Lock Morgan,Eric F. Lock,Dennis F. Lock,2016-12-01 *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 enabled through easy to use statistical software and are accessible at very early stages of a course The program includes the more traditional methods like t tests chi square tests etc but only after students have developed a strong intuitive understanding of inference through randomization methods The focus throughout is on data analysis and the primary goal is to enable students to effectively collect data analyze data and interpret conclusions drawn from data The program is driven by real data and real applications Math Advantage, Grade 8 Grace M. Burton,Harcourt Brace,1998-05-22 Canadian Engineer ,1913 Yojana ,2014 **The Michigan Journal** ,1990 **Canadian Journal of Physics** ,2013 Electrical & Electronics Abstracts ,1997 **Resources in Education** ,1982 **Government Reports Announcements** ,1974

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