

NOTE:

- If a candidate answers a question **TWICE**, only mark the **FIRST** attempt.
- Consistent accuracy applies in all aspects of the marking memorandum.

LET WEL:

- Indien 'n kandidaat 'n vraag **TWEE** keer beantwoord, merk slegs die **EERSTE** poging.
- Volgehoue akkuraatheid is **DEURGAANS** op **ALLE** aspekte van die memorandum van toepassing.

QUESTION/VRAAG 1

1.1.1	$(x - 2)(4 + x) = 0$ $x = 2$ or $x = -4$	$\checkmark x = 2$ $\checkmark x = -4$ (2)
1.1.2	$3x^2 - 2x - 14 = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $x = \frac{2 \pm \sqrt{(-2)^2 - 4(3)(-14)}}{2(3)}$ $= \frac{2 \pm \sqrt{172}}{6}$ $x = 2,52$ or/of $x = -1,85$ OR/OF $x^2 - \frac{2}{3}x + \frac{1}{9} = \frac{14}{3} + \frac{1}{9}$ $\left(x - \frac{1}{3}\right)^2 = \frac{43}{9}$ $x - \frac{1}{3} = \pm \frac{\sqrt{43}}{3}$ $\therefore x = \frac{1 \pm \sqrt{43}}{3}$ $x = 2,52$ or/of $x = -1,85$	$\checkmark$ standard form/standaardvorm $\checkmark$ substitution into correct formula/ substitusie in korrekte formule $\checkmark\checkmark$ answers/ antwoorde (4) $\checkmark$ for adding $\frac{1}{9}$ on both sides/ref $\frac{1}{9}$ by aan beide kante $\checkmark x = \frac{1 \pm \sqrt{43}}{3}$ $\checkmark\checkmark$ answers (4)

2014 Final Exam Maths Memorandum

**Ron Berger, Leah Rugen, Libby
Woodfin, EL Education**



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The Report: Saudi Arabia 2014 Oxford Business Group, 2014-08-18 Home to an estimated 15.9% of the world's proven oil reserves Saudi Arabia is the single largest economy in the Middle East and North Africa According to the Ministry of Finance real GDP grew by 3.8% to 746bn in 2013 While oil income is expected to continue to account for the majority of government revenues for the foreseeable future the non oil sector has expanded significantly in recent decades growing 9.3% in 2013 Indeed while some Western countries may be seeing a return to cautious optimism and leading emerging economies are weighing the potential impact on capital flows of tapering in the US Federal Reserve's quantitative easing programme Saudi Arabia is seeing sustained growth buoyed by high global oil prices and internal investment in its own infrastructure Some 15 years after Saudi Arabia attended the inaugural meeting of G20 countries its key economic indicators make it the envy of many other member states Given the size of Saudi economy within the regional and indeed global market OBG looks in depth at bilateral trade between ASEAN nations and the GCC

Department of Homeland Security Appropriations for 2014 United States. Congress. House. Committee on Appropriations. Subcommittee on Homeland Security, 2013

The Next Generation of Testing Hong Jiao, Robert W. Lissitz, 2015-11-01 The Race To The Top RTTP federal education policy fostered a new generation of state tests This policy advocated adopting common core standards which set a higher level of learning targets for students in the US K-12 education These standards are intended to assess higher order thinking skills and prepare students ready for college and career In the meantime they are aligned with those for international assessments which keep US students abreast of their international peers Furthermore the new generation of state tests requires the use of technology enhanced items to align student assessments with student learning environment Computer technology is indispensable to accomplish this goal Computer based tests related to common core standards are different from previous state computer based tests in two important aspects one is that the current version requires accurate assessment of students along all ability levels and the other is that it promotes the use of an efficient test delivery system essentially the use of computerized adaptive assessment in K-12 state testing programs In addition to providing summative information about student learning the new common core tests add formative assessment component in the whole assessment system to provide timely feedback to students and teachers during the process of student learning and teacher instruction As with its predecessor the new assessment policy also holds teachers and schools accountable for student learning With the requirements by the new federal education policy states formed two consortia Partnership for Assessment of Readiness for College and Careers PARCC and Smarter Balanced Assessment Consortium SBAC to develop assessments in alignment with the new common core standards This book is based on the presentations made at the Thirteenth Annual Maryland Assessment Research Center's Conference on The Next Generation of Testing Common Core Standards Smarter Balanced PARCC and the Nationwide Testing Movement Experts from the consortia and nationwide overviewed the intention history and the current status of this

nationwide testing movement Item development test design and transition from old state tests to the new consortia tests are discussed Test scoring and reporting are specially highlighted in the book The challenges related to standard setting for the new test especially in the CAT environment and linking performance standards from state tests with consortium tests were explored The issues of utilizing the consortium test results to evaluate students college and career readiness is another topic addressed in the book The last chapters address the critical issue of validity in the new generation of state testing programs Overall this book presents the latest status of the development of the two consortium assessment systems It addresses the most challenging issues related to the next generation of state testing programs including development of innovative items assessing higher order thinking skills scoring of such items standard setting and linkage with the old state specific standards and validity issues This edited book provides a very good source of information related to the consortium tests based on the common core standards

A European Politics of Education Romuald Normand, Jean-Louis Derouet, 2016-06-10 A European Politics of Education proposes a sociology of education establishing connections between empirical data coming from European scale comparative surveys normative assumptions structuring actors representations and interpretative judgements and a specific focus on Lifelong Learning policy areas It invites readers to think about the place of standards expertise and calculations in the European space from a common perspective supported by a tradition of critical sociology and European political studies The book Addresses an important agenda how the policies and politics of supranational Europe are making a European educational space Contains a response to the emergence of new epistemic governance and instruments at European level Contains contributions from the EU and the UK which give a comprehensive selection of perspectives and analysis of the field as it concerns Europe The complexity of the contemporary European education policy space is addressed here with new lines of inquiry as well as a reflexive outlook on standardization policy making and actor engagement Students and researchers of European policy studies education policy analysts and theorists will all be particularly interested readers

Kids Count New Jersey ..., 2016 *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 My Mathematical Universe: People, Personalities, And The Profession Krishnaswami Alladi,2022-11-15 This is an autobiography and an exposition on the contributions and personalities of many of the leading researchers in mathematics and physics with whom Dr Krishna Alladi Professor of Mathematics at the University of Florida has had personal interaction with for over six decades Discussions of various aspects of the physics and mathematics academic professions are included Part I begins with the author s unusual and frequent introductions as a young boy to scientific luminaries like Nobel Laureates Niels Bohr Murray Gell Mann and Richard Feynman in the company of his father the scientist Alladi Ramakrishnan Also in Part I is an exciting account of how the author started his research investigations in number theory as an undergraduate and how contact and collaboration with the great Paul Erd s as a student influenced him in his career In depth views of the Institute for Advanced Study Princeton and several major American Universities are given and fascinating descriptions of the work and personalities of some Field Medalists and eminent mathematicians are provided Part II deals with the author s tenure at the University of Florida where he initiated several programs as Mathematics Chair for a decade and how he has served the profession in various capacities most notably as Chair of the SASTRA Ramanujan Prize Committee and Editor in Chief of The Ramanujan Journal The book would appeal to academicians and the general public since the author has blended academic and scientific discussions at a non technical level with descriptions of destinations in his international travels for work and pleasure The reader is invited to dig as deep as desired and is guaranteed to be treated to whimsical stories and personal peeks at some of the great luminaries of the twentieth and twenty first centuries Scientific and Technical Aerospace Reports ,1991

Transformational Change Efforts: Student Engagement in Mathematics through an Institutional Network for Active Learning Wendy M. Smith,Matthew Voigt,April Ström,David C. Webb,W. Gary Martin,2021-05-05 The purpose of this handbook is to help launch institutional transformations in mathematics departments to improve student success We report findings from the Student Engagement in Mathematics through an Institutional Network for Active Learning SEMINAL study SEMINAL s purpose is to help change agents those looking to or currently attempting to enact change within mathematics departments and beyond trying to reform the instruction of their lower division mathematics courses in order to promote high achievement for all students SEMINAL specifically studies the change mechanisms that allow postsecondary institutions to incorporate and sustain active learning in Precalculus to Calculus 2 learning environments Out of the approximately 2.5 million students enrolled in collegiate mathematics courses each year over 90% are enrolled in Precalculus to Calculus 2

courses Forty four percent of mathematics departments think active learning mathematics strategies are important for Precalculus to Calculus 2 courses but only 15 percent state that they are very successful at implementing them Therefore insights into the following research question will help with institutional transformations What conditions strategies interventions and actions at the departmental and classroom levels contribute to the initiation implementation and institutional sustainability of active learning in the undergraduate calculus sequence Precalculus to Calculus 2 across varied institutions

Math Instruction for Students with Learning Problems Susan Perry Gurganus, 2017-02-24 Math Instruction for Students with Learning Problems Second Edition provides a research based approach to mathematics instruction designed to build confidence and competence in pre and in service PreK 12 teachers This core textbook addresses teacher and student attitudes toward mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors The material is rich with opportunities for class activities and field extensions and the second edition has been fully updated to reference both NCTM and CCSSM standards throughout the text and includes an entirely new chapter on measurement and data analysis

Math Instruction for Students with Learning Difficulties Susan Perry Gurganus, 2021-11-29 This richly updated third edition of Math Instruction for Students with Learning Difficulties presents a research based approach to mathematics instruction designed to build confidence and competence in preservice and inservice PreK 12 teachers Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State Standards for Mathematics this essential text addresses teacher and student attitudes towards mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors Chapters on assessment and instruction precede strands that focus on critical concepts Replete with suggestions for class activities and field extensions the new edition features current research across topics and an innovative thread throughout chapters and strands multi tiered systems of support as they apply to mathematics instruction

The Years That Matter Most Paul Tough, 2019-09-12 What has gone wrong in our universities And how do we make it right When Amy applied to university she thought she d be judged purely on her merits But she never thought that her family background would have as much impact on her future as her grades When KiKi arrived at university she knew she could be the only black woman in her class But she didn t know how out of place she would feel nor how unwelcoming her peers would be When Orry graduated from university he was told he d probably land a six figure salary But he wasn t told he d end up barely scraping a living wage struggling to feed his children Drawing on the stories of hundreds of American students *The Years That Matters Most* is a revelatory account of a university system in crisis Paul Tough bestselling author of *How Children Succeed* exposes a world where small town colleges go bust while the most prestigious raise billions every year where overstretched admissions officers are forced to pick rich candidates over smart ones where black and working class students are left to sink or swim on uncaring campuses Along the way he uncovers cutting edge research from the academics

leading the way to a new kind of university one where students succeed not because of their background but because of the quality of their minds The result is a call to arms for universities that work for everyone and a manual for how we can make it happen

Handbook of Special Education James M. Kauffman, Daniel P. Hallahan, Paige Cullen Pullen, 2017-05-25 The purpose of the Handbook of Special Education is to help profile and bring greater clarity to the already sprawling and continuously expanding field of special education To ensure consistency across the volume chapter authors review and integrate existing research identify strengths and weaknesses note gaps in the literature and discuss implications for practice and future research The second edition has been fully updated throughout to take into account recent changes to federal laws as well as the most current academic research and an entirely new section has been added on research methods in special education

Moving the Needle on Children's Physical Activity - How to Best Promote More Movement? Mirko Brandes, Jennifer Sacheck, 2024-07-24 Globally physical inactivity is on the rise in most countries and according to the WHO it is considered one of the leading major public health risks As children's physical activity behaviors are conveyed into adulthood many interventions focus on establishing healthy physical activity habits in children to prevent the potential negative health outcomes associated with low physical activity over the life course The school environment provides an opportunity to reach the majority of children however physical activity promotion in schools can often be a challenge Barriers to the success of physical activity interventions include the physical social and economic environment competencies and workload of teachers as well as the perception that physical activity may interfere with the primary task of schools which is education Moreover the evaluation of physical activity interventions for children is challenging raising a discussion on how to best evaluate these interventions

Assessment Approaches to Support Bycatch Management for Marine Mammals Tessa Francis, Jeff Moore, Andre Eric Punt, Randall Reeves, 2022-06-21

Assessment of Feigned Cognitive Impairment, Second Edition Kyle Brauer Boone, 2021-06-04 The go to resource for clinical and forensic practice has now been significantly revised with 85% new material reflecting the tremendous growth of the field Leading authorities synthesize the state of the science on symptom feigning in cognitive testing and present evidence based recommendations for distinguishing between credible and noncredible performance A wide range of performance validity tests PVTs and symptom validity tests SVTs are critically reviewed and guidelines provided for applying them across differing cognitive domains and medical neurological and psychiatric conditions The book also covers validity testing in forensic settings and with particular populations such as ethnic and linguistic minority group members New to This Edition Numerous new authors a greatly expanded range of topics and the latest data throughout Clinical primer chapter on how to select and interpret appropriate PVTs Chapters on methods for validity testing in visual spatial processing speed and language domains and with cognitive screening instruments and personality inventories Chapter on methods for interpreting multiple PVTs in combination Chapters on additional populations military personnel children and adolescents and clinical problems dementia somatoform

conversion disorder Chapters on research methods for validating PVTs base rates of feigned mild traumatic brain injury and more Leaders of Their Own Learning Ron Berger, Leah Rugen, Libby Woodfin, EL Education, 2014-01-07 From EL Education comes a proven approach to student assessment Leaders of Their Own Learning offers a new way of thinking about assessment based on the celebrated work of EL Education schools across the country Student Engaged Assessment is not a single practice but an approach to teaching and learning that equips and compels students to understand goals for their learning and growth track their progress toward those goals and take responsibility for reaching them This requires a set of interrelated strategies and structures and a whole school culture in which students are given the respect and responsibility to be meaningfully engaged in their own learning Includes everything teachers and school leaders need to implement a successful Student Engaged Assessment system in their schools Outlines the practices that will engage students in making academic progress improve achievement and involve families and communities in the life of the school Describes each of the book's eight key practices gives advice on how to begin and explains what teachers and school leaders need to put into practice in their own classrooms Ron Berger is Chief Program Officer for EL Education and a former public school teacher Leaders of Their Own Learning shows educators how to ignite the capacity of students to take responsibility for their own learning meet Common Core and state standards and reach higher levels of achievement Video and other supplementary materials are not included as part of the e book file but are available for download after purchase *If the Gods Are Not Crazy, Then Surely These Corporate Executives Are* Alec Aaron, 2014-09-16 A Trinidad born programmer analyst Alec Aaron recounts his difficult experiences obtaining a career in Corporate America Coming from a schooling background not akin to that of the United States Aaron is often meant with confusion and distrust about his General Certificate of Education from the University of Cambridge in England a high school called Presentation College and the number of years he spent in high school Also the quality depth details contents and duration of his undergrad degree are treated with derision and disdain More troubles come in the workplace itself as Aaron seems often at the wrong end of a chain of blame even after past performance suggests otherwise Although Aaron has since gotten to the proverbial light at the end of the tunnel he offers his experiences in the hope that other non traditional job seekers will be more aware of the trials and tribulations of obtaining a position in Corporate America Young Generation Awakening Edward Sayre, Tarik Yousef, 2016 The Arab Spring uprisings of 2011 2012 across the Middle East have been associated with the underlying grievances of young people This volume examines the prevailing socioeconomic conditions of youth the eve of the uprisings and assess their role in fomenting the youth led protests *Zones of Control* Pat Harrigan, Matthew G. Kirschenbaum, 2016-04-15 A look at wargaming's past present and future from digital games to tabletop games and its use in entertainment education and military planning With examples from Call of Duty Modern Warfare Harpoon Warhammer 40 000 and more Games with military themes date back to antiquity and yet they are curiously neglected in much of the academic and trade literature on games and game history This

volume fills that gap providing a diverse set of perspectives on wargaming's past present and future In *Zones of Control* contributors consider wargames played for entertainment education and military planning in terms of design critical analysis and historical contexts They consider both digital and especially tabletop games most of which cover specific historical conflicts or are grounded in recognizable real world geopolitics Game designers and players will find the historical and critical contexts often missing from design and hobby literature military analysts will find connections to game design and the humanities and academics will find documentation and critique of a sophisticated body of cultural work in which the complexity of military conflict is represented in ludic systems and procedures Each section begins with a long anchoring chapter by an established authority which is followed by a variety of shorter pieces both analytic and anecdotal Topics include the history of playing at war operations research and systems design wargaming and military history wargaming's ethics and politics gaming irregular and non kinetic warfare and wargames as artistic practice

Unveiling the Magic of Words: A Overview of "**2014 Final Exam Maths Memorandum**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**2014 Final Exam Maths Memorandum**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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