

NOTE:

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

LET WEL:

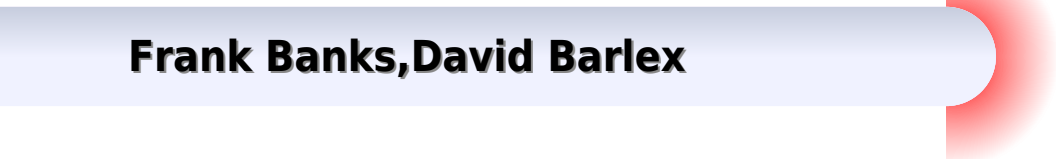
- Indien 'n kandidaat 'n vraag **TWEE** keer beantwoord, merk slegs die **EERSTE** poging.
- Volgehoue akkuraatheid is **DEURGAANS** in **ALLE** aspekte van die memorandum van toepassing.

QUESTION/VRAAG 1

1.1.1	$3x^2 - 4x = 0$ $x(3x - 4) = 0$ $x = \frac{4}{3}$ or $x = 0$	✓ factors ✓ both answers (2)
1.1.2	$x - 6 + \frac{2}{x} = 0$ $x^2 - 6x + 2 = 0$ $x = \frac{-(-6) \pm \sqrt{(-6)^2 - 4(1)(2)}}{2(1)}$ $= \frac{6 \pm \sqrt{28}}{2}$ $x = 0,35$ or $x = 5,65$ OR $x - 6 + \frac{2}{x} = 0$ $x^2 - 6x + 2 = 0$ $(x - 3)^2 = -2 + 9$ $(x - 3) = \pm\sqrt{7}$ $x = 3 \pm \sqrt{7}$ $x = 0,35$ or $x = 5,65$	✓ $x^2 - 6x + 2 = 0$ ✓ subs into correct formula ✓ $x = 0,35$ ✓ $x = 5,65$ (4)
1.1.3	$x^{\frac{2}{3}} = 4; x > 0$ $x = (2^2)^{\frac{3}{2}}$ $x = 8$ OR	✓ $x = (2^2)^{\frac{3}{2}}$ ✓ $x = 8$ (2)

Maths Exemplar 2014 Grade12

Frank Banks, David Barlex



Maths Exemplar 2014 Grade12:

Handbook of Research on Teacher Practices for Diverse Writing Instruction Hodges, Tracey S.,2022-05-20 The art and practice of writing is complex and multidimensional students often apply unique writing styles As such educators must apply focused teaching methods to nurture these unique forms of writing Educators must stay up to date with the practices for diverse writing instruction in order to best engage with a diverse classroom However resources related to writing typically do not focus on the depth and breadth of writing and there is a need for a resource that offers a comprehensive look at diverse writing instruction research The Handbook of Research on Teacher Practices for Diverse Writing Instruction provides a rich discussion of the issues perspectives and methods for writing instruction currently in use with an added lens focusing on diversity and equity It provides unique coverage on the topic of writing instruction for practical implementation within the classroom setting Covering topics such as student motivation curriculum development and content area instruction this major reference work is an essential resource for preservice teachers faculty and administration of K 12 and higher education academic libraries government officials school boards researchers and academicians

Preparing STEM Teachers Joanne E. Goodell,Selma Koç,2020-09-01 STEM project based instruction is a pedagogical approach that is gaining popularity across the USA However there are very few teacher education programs that focus specifically on preparing graduates to teach in project based environments This book is focused on the UTeach program a STEM teacher education model that is being implemented across the USA in 46 universities Originally focused only on mathematics and science many UTeach programs are now offering engineering and computer science licensure programs as well This book provides a forum to disseminate how different institutions have implemented the UTeach model in their local context Topics discussed will include sustainability features of the model and how program assessment innovative instructional programming classroom research and effectiveness research have contributed to its success The objectives of the book are To help educators gain insight into a teacher education organizational model focused on STEM and how and why it was developed To present the theoretical underpinnings of a STEM education model i e deep learning conceptual understanding To present innovative instructional programming in teacher education i e projectbased instruction functions and modeling research methods To present research and practice in classroom and field implementation and future research recommendations To disseminate program assessments and improvement efforts

Quantitative Measures of Mathematical Knowledge Jonathan Bostic,Erin Krupa,Jeffrey Shih,2019-04-29 The aim of this book is to explore measures of mathematics knowledge spanning K 16 grade levels By focusing solely on mathematics content such as knowledge of mathematical practices knowledge of ratio and proportions and knowledge of abstract algebra this volume offers detailed discussions of specific instruments and tools meant for measuring student learning Written for assessment scholars and students both in mathematics education and across educational contexts this book presents innovative research and perspectives on quantitative measures including their

associated purpose statements and validity arguments **Confronting Oppressive Assessments** Walter S. Polka, John William McKenna, 2016-09-14 This book is about doing what's right for public education in the United States in this age of intensive curriculum convergence, planned instructional standardization and oppressive accountability procedures. Information is presented about why and how educators, parents, students, community members and policy makers have decided to protest against current state and federal educational policies and procedures. The practical experiences of parents, teachers, principals, school superintendents, school board members and professors are analyzed in chapters of this book. Their first-hand experiences with the various components of the current reform movement are poignantly presented. Through their voices, the frustrations with the serious flaws associated with this reform agenda are passionately and logically articulated. They comprehensively explain their personal and professional motivations for organizing and fomenting a rethinking in school reform implementation procedures and they advocate their smarter approach to school reforms in our country. The book includes key references that elucidate the need to seriously re-think the directions and strategies of contemporary schooling in order to maintain enlightened, creative instruction based on exciting student-centered curriculum experiences and professional educational judgments.

Building Support for Scholarly Practices in Mathematics Methods Signe E. Kastberg, Andrew M. Tyminski, Alyson E. Lischka, Wendy B. Sanchez, 2017-09-01 Building Support for Scholarly Practices in Mathematics Methods is the product of collaborations among over 40 mathematics teacher educators (MTEs) who teach mathematics methods courses for prospective PreK-12 teachers in many different institutional contexts and structures. Each chapter unpacks ways in which MTEs use theoretical perspectives to inform their construction of goals, activities designed to address those goals, facilitation of activities and ways in which MTEs make sense of experiences prospective teachers have as a result. The book is organized in seven sections that highlight how the theoretical perspective of the instructor impacts scholarly inquiry and practice. The final section provides insight as we look backward to reflect and forward with excitement, moving with the strength of the variation we found in our stories and the feeling of solidarity that results in our understandings of purposes for and insight into teaching mathematics methods. This book can serve as a resource for MTEs as they discuss and construct scholarly practices and as they undertake scholarly inquiry as a means to systematically examine their practice.

Teaching STEM in the Secondary School Frank Banks, David Barlex, 2020-12-29 This book looks at the purpose and pedagogy of STEM teaching and explores the ways in which STEM subjects can interact in the curriculum to enhance student understanding, achievement and motivation. By reaching outside their own classroom, teachers can collaborate across STEM subjects to enrich learning and help students relate school science, technology and maths to the wider world. Packed with ideas and practical details for teachers of STEM subjects, the new revised edition of this book considers what the STEM subjects contribute separately to the curriculum and how they relate to each other in the wider education of secondary school students. It describes and evaluates different curriculum models for STEM, suggests ways in

which a critical approach to the pedagogy of the classroom laboratory and workshop can support and encourage all pupils to engage fully in STEM addresses the practicalities of introducing organising and sustaining STEM related activities in the secondary school looks to ways schools can manage and sustain STEM approaches in the long term This new revised edition is essential reading for trainee and practising teachers those engaged in further professional development and all who wish to make the learning of science technology engineering and mathematics an interesting motivating and exciting experience for their students

Leadership and Women in Statistics Amanda L. Golbeck, Ingram Olkin, Yulia R. Gel, 2015-07-13 Learn How to Infuse Leadership into Your Passion for Scientific Research Leadership and Women in Statistics explores the role of statisticians as leaders with particular attention to women statisticians as leaders By paying special attention to women s issues this book provides a clear vision for the future of women as leaders in scientific and

Connecting People to Their Oceans: Issues and Options for Effective Ocean Literacy Angel Borja, Francesca Santoro, Gail Scowcroft, Stephen Fletcher, Pierre Strosser, 2020-03-25 While there is growing evidence of the importance of marine ecosystems for our societies evidence shows also that pressures from human activities on these ecosystems are increasing putting the health of marine ecosystems at stake worldwide Hence Blue Economy is becoming an important component of future socio economic development strategies e g this is called Blue Growth in Europe that eventually can result in increasing pressures at sea and despite the current regulatory framework in particular with the Oceans Act in USA or Canada and the Marine Strategy Framework Directive in Europe it is likely that this situation will continue in the future Ensuring all those connected to the sea directly or indirectly gain a better understanding of the importance of the seas the human sea interactions and opportunities to act better and reduce impacts from human pressures is central to Ocean Literacy OL Receiving increasing attention in Europe and USA OL is a challenge for all parts of society educators 2 the role OL could play in interaction with innovation regulation economic incentive social norms to support human capital development as key component of sustainable growth and 3 pre conditions for effective OL for different sectors and target groups Questions relevant to OL include Which knowledge produced by whom to share and how Who to target and how to effectively reach those targeted How to design OL initiatives including by mobilizing those targeted via living lab approaches e g to ensure effective OL and pave the way for behavior change What are the knowledge gaps that limit our capacity to design effective OL As scientists it is likely you have many more questions to offer and discuss

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Table of Contents Maths Exemplar 2014 Grade12

1. Understanding the eBook Maths Exemplar 2014 Grade12
 - The Rise of Digital Reading Maths Exemplar 2014 Grade12
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Exemplar 2014 Grade12
 - 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 Maths Exemplar 2014 Grade12
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Exemplar 2014 Grade12
 - Personalized Recommendations
 - Maths Exemplar 2014 Grade12 User Reviews and Ratings
 - Maths Exemplar 2014 Grade12 and Bestseller Lists
5. Accessing Maths Exemplar 2014 Grade12 Free and Paid eBooks
 - Maths Exemplar 2014 Grade12 Public Domain eBooks
 - Maths Exemplar 2014 Grade12 eBook Subscription Services
 - Maths Exemplar 2014 Grade12 Budget-Friendly Options

6. Navigating Maths Exemplar 2014 Grade12 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Exemplar 2014 Grade12 Compatibility with Devices
 - Maths Exemplar 2014 Grade12 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Exemplar 2014 Grade12
 - Highlighting and Note-Taking Maths Exemplar 2014 Grade12
 - Interactive Elements Maths Exemplar 2014 Grade12
8. Staying Engaged with Maths Exemplar 2014 Grade12
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Exemplar 2014 Grade12
9. Balancing eBooks and Physical Books Maths Exemplar 2014 Grade12
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Exemplar 2014 Grade12
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Exemplar 2014 Grade12
 - Setting Reading Goals Maths Exemplar 2014 Grade12
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Exemplar 2014 Grade12
 - Fact-Checking eBook Content of Maths Exemplar 2014 Grade12
 - 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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