

GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1

QUESTION 1

- 1.1 Solve for x :
- 1.1.1 $x^2 - 5x - 6 = 0$ (2)
- 1.1.2 $(2x - 3)(x + 1) = 9$ (3)
- 1.1.3 $x - \sqrt{x-1} = 3$ (4)
- 1.1.4 $x(x + 18) > -25$ (4)
- 1.1.5 $x^{\frac{1}{2}} = 4$ (3)
- 1.1.6 $2^{2x} - 2^{x+1} = 12$ (4)
- 1.2 Simultaneously solve x and y :
- $2x - y = 1$ and $3x^2 - 4xy + y^2 = 0$ (5)
- 1.3 Solve the following inequalities:
- 1.3.1 $x^2 + 5x - 6 > 0$ (3)
- 1.3.2 $-3(x + 1)(x - 2) < 0$ (3)
- [P1]**

QUESTION 2

- 2.1 $x = -3 \pm 2\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y -intercept is 4. Determine $f(x)$. (5)
- 2.2 Given: $g(x) = \frac{x^2 - 2x + 1}{x - 1}$
- 2.2.1 For which values of x will $g(x)$ be undefined? (2)
- 2.2.2 Explain why $g(x)$ will never equal zero. (Show all your calculations). (3)
- 2.3 Solve $x \in \mathbb{R} : \frac{2-x}{x+1} < 0$. Graphically represent your answer. (5)

- 2.4 Simplify and leave an answer with positive exponents only:

$$\frac{\sqrt[3]{x^2 y^{2x+1}}}{\sqrt[3]{x^{2x+1} y}}$$

(4)

- 2.5 Without solving the equation, determine the nature of the roots of: $4x^2 = 2x + 1$. (5)
- [P4]**

QUESTION 3

- 3.1 The first three terms of a linear series, is given as: $3x - 2$, $x + 1$, $2x + 5$
- 3.1.1 Determine the value of x . (3)
- 3.1.2 Determine the numerical value of T_5 . (2)
- 3.2 Given the quadratic series: $-120, -94, -68, -20, \dots$
- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.1 Determine T_n , the general term of the pattern. (3)
- 3.2.3 Given that $T_n = -4n^2 + 56n - 180$, determine the largest possible numerical value for T_n . (4)
- 3.3 Given $T_n = 13 - 3n$:
- 3.3.1 Which term in the series would be equal to -179 . (3)
- 3.3.2 Determine the numerical value for the 11th term. (2)

- 3.4 James and John look at the following patterns:

Pattern 1	Pattern 2	Pattern 3
		
		
		

James says if he increases the pattern number by one, square that number and then subtract the pattern number increased by one he will get the general formula.

John says he can derive the general formula for the number of blocks by taking the number of columns in each pattern and multiplying it by the number of rows.

- Who is correct between James and John? Prove your answer. (5)
- [P4]**

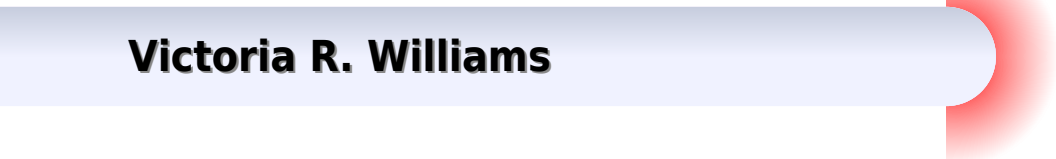
QUESTION 4

Given: $f(x) = \frac{x^2}{x+1} - 1$ and $g(x) = -x^2$. The point $(1, -3)$ lies on g .

- 4.1 Determine the value of x . (2)
- 4.2 Draw a neat sketch of the two graphs on the same axis. Show all intercepts with the axes and asymptote clearly. (5)
- 4.3 Determine the axis of symmetry of f that has a positive gradient. (2)
- [P]**

Maths Paper 1 Grade 11 2014 November

Victoria R. Williams



Maths Paper 1 Grade 11 2014 November:

Research for Educational Change Jill Adler, Anna Sfard, 2016-06-17 Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice Focussing its discussion within the context of mathematics education it argues that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice the book deals with the perennial question of communication between those who study educational processes and those who are directly responsible for teacher education educational research and classroom practices This book will be key reading for postgraduates researchers and academics in education and particularly in the areas of mathematics education education research teacher education and classroom practice It will also appeal to teacher educators practitioners and undergraduate students interested in educational research *South African national bibliography*, 1999 Classified list with author and title index *Preschool Geometry* Esther Levenson, Dina Tirosh, Pessia Tsamir, 2012-01-01 Recently the issue of early childhood mathematics has come to the fore and with it the importance of teaching geometrical concepts and reasoning from a young age Geometry is a key domain mentioned in many national curricula and may also support the learning of other mathematical topics such as number and patterns This book is based on the rich experience research and practice of the authors and is devoted entirely to the learning and teaching of geometry in preschool The first part of the book is dedicated to children s geometrical thinking building concept images in line with concept definitions and the dilemmas that arise in the process The second part focuses on geometrical tasks and their role in developing and assessing geometrical reasoning The third part focuses on teaching geometry to young children Each of the three parts is structured in a similar manner beginning with general theory and research continuing with specific examples related to those theories and moving on to elements of actual practice Written in a meaningful yet enjoyable manner any person who has an interest in the mathematics education of preschool children be it parents caregivers teachers teacher educators and researchers will find this book relevant [The Gas Engineer's Magazine](#), 1926 **Human Resource Management, 11th Edition** Raymond J. Stone, Anne Cox, Mihajla Gavin, Joseph Carpini, 2024-06-04 The new edition of Raymond Stone s Human Resource Management is an AHRI endorsed title that has evolved into a modern relevant and practical resource for first year HRM students This concise 15 chapter

textbook gives your students the best chance of transitioning successfully into their future profession by giving them relatable professional insights and encouragement to exercise their skills in authentic workplace scenarios Resources in Education ,2001-10

Celebrating Life Customs around the World Victoria R. Williams,2016-11-21 This book documents hundreds of customs and traditions practiced in countries outside of the United States showcasing the diversity of birth coming of age and death celebrations worldwide From the beginning of our lives to the end all of humanity celebrates life s milestones through traditions and unique customs In the United States we have specific events like baby showers rites of passage such as Bat and Bar Mitzvahs and sweet 16 birthday parties and sober end of life traditions like obituaries and funeral services that honor those who have died But what kinds of customs and traditions are practiced in other countries How do people in other cultures welcome babies prepare to enter into adulthood and commemorate the end of the lives of loved ones This three volume encyclopedia covers more than 300 birth life and death customs with the books content organized chronologically by life stage Volume 1 focuses on birth and childhood customs Volume 2 documents adolescent and early adulthood customs and Volume 3 looks at aging and death customs The entries in the first volume examine pre birth traditions such as baby showers and other gift giving events and post birth customs such as naming ceremonies child rearing practices and traditions performed to ward off evil or promote good health The second volume contains information about rites of passage as children become adults including indigenous initiations marriage customs and religious ceremonies The final volume concludes with coverage on customs associated with aging and death such as retirement celebrations elaborate funeral processions and the creation of fantasy coffins The set features beautiful color inserts that illustrate examples of celebrations and ceremonies and includes an appendix of excerpts from primary documents that include legislation on government accepted names wedding vows and maternity paternity leave regulations *Cotton Spinning* Thomas Thornley,1927

Teaching Community School Mathematics Barbara Miller-Souviney,1981

Helping Children Learn Mathematics Robert Reys,Mary Lindquist,Diana V. Lambdin,Nancy L. Smith,Anna Rogers,Audrey Cooke,Sue Bennett,Bronwyn Ewing,John West,2020-01-21 The third edition of Reys Helping Children Learn Mathematics is a practical resource for undergraduate students of primary school teaching Rich in ideas tools and stimulation for lessons during teaching rounds or in the classroom this edition continues to provide a clear understanding of how to navigate the Australian Curriculum with detailed coverage on how to effectively use Information and Communications Technology ICT in the classroom This is a full colour printed textbook with an interactive ebook code included Great self study features include auto graded in situ knowledge check questions video of teachers demonstrating how different maths topics can be taught in the classroom and animated branched chain scenarios are in the e text

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Table of Contents Maths Paper 1 Grade 11 2014 November

1. Understanding the eBook Maths Paper 1 Grade 11 2014 November
 - The Rise of Digital Reading Maths Paper 1 Grade 11 2014 November
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper 1 Grade 11 2014 November
 - 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 Paper 1 Grade 11 2014 November
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper 1 Grade 11 2014 November

- Personalized Recommendations
- Maths Paper 1 Grade 11 2014 November User Reviews and Ratings
- Maths Paper 1 Grade 11 2014 November and Bestseller Lists
- 5. Accessing Maths Paper 1 Grade 11 2014 November Free and Paid eBooks
 - Maths Paper 1 Grade 11 2014 November Public Domain eBooks
 - Maths Paper 1 Grade 11 2014 November eBook Subscription Services
 - Maths Paper 1 Grade 11 2014 November Budget-Friendly Options
- 6. Navigating Maths Paper 1 Grade 11 2014 November eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper 1 Grade 11 2014 November Compatibility with Devices
 - Maths Paper 1 Grade 11 2014 November Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper 1 Grade 11 2014 November
 - Highlighting and Note-Taking Maths Paper 1 Grade 11 2014 November
 - Interactive Elements Maths Paper 1 Grade 11 2014 November
- 8. Staying Engaged with Maths Paper 1 Grade 11 2014 November
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper 1 Grade 11 2014 November
- 9. Balancing eBooks and Physical Books Maths Paper 1 Grade 11 2014 November
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper 1 Grade 11 2014 November
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper 1 Grade 11 2014 November
 - Setting Reading Goals Maths Paper 1 Grade 11 2014 November
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper 1 Grade 11 2014 November

- Fact-Checking eBook Content of Maths Paper 1 Grade 11 2014 November
- 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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