

**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 if: $\frac{2-x}{x+1} < 0$. 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]**

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**Cyril Julie, Lorna Holtman, Charles R.
Smith**



Maths Grade November 2014:

Caught in the Act Cyril Julie, Lorna Holtman, Charles R. Smith, 2019-12-11 The research reported in *Caught in the Act* draws together the insights gained from a continuous professional development initiative for high school mathematics teachers teaching in low socio economic status and socially challenged environments in South Africa The chapters show the possibilities for enhancing achievement in school mathematics if a strength based approach is adopted to develop teaching with teachers and when their concerns are taken seriously The book demonstrates that the ecological relevance fitness for the context in which teachers are teaching of the goods developed and distributed by initiatives should be a major consideration to offer hope for sustainable implementation to improve school mathematics education The book is of interest to mathematics teachers school leaders mathematics curriculum advisors policy makers and researchers *Global Action on School Library Guidelines* Barbara A. Schultz-Jones, Dianne Oberg, 2015-06-16 This book celebrates the new IFLA School Library Guidelines and shows how the Guidelines can be used in improving school library services Each chapter describes innovative initiatives for developing implementing and promoting school library guidelines The book provides inspiration and guidance for the creation of national school library standards and for the development and use of standards and guidelines to change school library practice to define the teaching role of school librarians to guide the initial preparation of school librarians and to advocate for school library services Contributors to the book come from around the world Australia Canada Ethiopia France Malaysia Norway Poland Portugal Spain Sweden and the United States Their work illustrates the shared commitment of school librarians around the world to teaching and learning for all as envisioned in the IFLA UNESCO School Library Manifesto **Leadership, My Way!** Marian White-Hood, 2024-08-23 Written by a compassionate and spiritual woman *Leadership My Way* Coming Full Circle is Dr Marian White Hood s thoughtful and compelling journal of her life journey through a rigorous ever changing yet rewarding educational territory Her travels uncover deep questions concerns and conflicts that become the leader s compass While she is still leading find out her why her how and her win

Continuous Improvement Erin Anderson, Sonya D. Hayes, 2023-09-01 Through this book we seek to describe improvement science in action for educators schools districts universities and communities This book is a venue for improvement research in education focused on the application of improvement science in educational settings Improvement science requires extensive engagement in rigorous work to implement sustainable change at a systemic level As the editors of this volume for the Leadership in School Improvement SIG book series we hope that these chapters written by researchers practitioners and leaders engaged in improvement science will help others begin their own improvement processes to achieve desired equitable and sustainable results for student success **ENDORSEMENTS** Continuous Improvement A Leadership Process for School Improvement brings together an impressive group of fieldleading improvement scholars with deep connections to educational practice to provide a powerful vision for what equity centered improvement science looks

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Performance Report Philippines. Department of Science and Technology,2015 *Using Peer Tutoring to Improve Reading Skills* Keith Topping,David Duran,Hilde Van Keer,2015-10-08 Using Peer Tutoring to Improve Reading Skills is a very practical guide offering a straightforward framework and easy to implement strategies to help teachers help pupils progress in reading A succinct introduction it shows how schools can make positive use of differences between pupils and turn them into effective learning opportunities Outlining the evidence base supporting peer tutoring approaches it explores the components of the reading process and explains how peer tutoring in reading can be used with any method of teaching reading Core topics covered include Planning and implementing peer tutoring Getting your school on board How to structure effective interaction Training peer tutors and tutees Paired Reading cross ability approaches One Book for Two fostering fluency reading comprehension and motivation Reading in Pairs cross and same year tutoring Supporting struggling readers Involving families in peer tutoring Evaluation and feedback Illustrated throughout with practical examples from diverse schools across Europe Using Peer Tutoring to Improve Reading Skills is an essential introduction offering easy to use guidelines that will support teachers in primary and secondary schools as they enhance pupil motivation and improve reading standards **The Parliamentary Debates (Hansard).** Great Britain. Parliament. House of Lords,2014 Parliamentary Debates India. Parliament. Rajya Sabha,2014-11 **New Horizon of Psychological Assessment in Education** Melissa Lee Yen Abdullah Ng,2019 **New Jersey Register** ,2015 **South African national bibliography** ,1999 Classified list with author and title index *Colorado School Laws* Colorado,2019 **Report to the Illinois General Assembly** Illinois Task Force on Growth Models,2007 Summary of Legislation ... California. Legislature. Senate. Committee on Education,2013 *Legislative Summary* California. Legislature. Assembly. Education Committee,2013 **Missouri Conservationist** ,2014 **Annual Report** Mpumalanga (South Africa). Department of Education,2015 **TASKs for Democracy** Josef Huber (Educator),Pascale Mompoin-Gaillard,Ildikó Lázár,2015 This publication contains a rationale for the necessity to focus on competences for democracy in all areas of education an explanation of what transversal attitudes skills and knowledge mean and why they are important for and should be taken on board by all education professionals A list of components forms the heart of the publication describing the core attitudes skills and knowledge which need to be

developed by every individual in order to be able to live in and to contribute to the development and maintenance of democratic societies in their full diversity The collection of learning and re learning activities will help practitioners to promote the development of these components in their day to day educational practice *Journal for Research in Mathematics Education* ,2015 *Journal of Education* ,1902

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device master record dmr a compilation of records containing the procedures and specifications for a finished device the device master record dmr may include device specifications including appropriate drawings composition formulation component specifications and software specifications

device master record index template what is device master record - Dec 31 2021

contrivance master record index master upon compilation von all documents to be contained in the master record a device studienabschluss record index template should be prepared to identification all items in the record and location s of these records

white paper device master records and medical device files - Jan 12 2023

what are dmrs what are mdfs how do they compare this white paper focuses on medical device compliance per 21 cfr 820 181 for dmr and iso 13485 2016 4 2 3 for mdf documentation the intent is to demonstrate how these compare as well as how a single system can fulfill the requirements of each what is a device master record dmr

what is device master record dmr and why is it important - Jul 18 2023

dec 17 2021 a device master record dmr is a collection of all the records that must be used to produce a medical device product let s imagine that your medical devices company is planning on manufacturing a new and improved coronary stent which is a

best practices for maintaining device master records - May 16 2023

sep 30 2011 section 820 3 j of the federal code defines device master record dmr is a set of documents containing procedures and specifications for a finished medical device simply put device master record dmr is a collection of all the documents required to manufacture and test a medical device

device master record wikipedia - Jun 17 2023

a device master record dmr is a compilation of all the instructions drawings and other records that must be used to produce a product the term is used in quality management systems that cover product design and production contents

what is the device master record dmr qualio - Mar 14 2023

aug 17 2021 overview what is a device master record when it boils down to it investing in a quality management system qms is the single most important thing you can do to ensure the safekeeping of your device master record as well as your design history files and device history records for that matter

dhf template format and content of design history file - Jul 06 2022

apr 14 2016 for a device master record dmr i recommend creating a dmr index using a template that is organized in accordance with an international standard to meet the needs of a dmr and a technical file

device master record contents template bizmanualz - Oct 29 2021

device master record contents template the device master records contents guide is a listing of items that may appear in a device master record manuals ceo 9 manual set 45 off cfo 5 manual set 34 off accounting manual finance manual it policy manual hr policy manual sales marketing manual iso 9001 quality procedures manual

documents change control and records u s food and drug administration - Oct 09 2022

definitions 21 cfr 820 3 device master record dmr compilation of records containing procedures and specifications for a finished device 21 cfr 820 3 j device history record