

**GRADE 9 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1**

QUESTION 1

Choose and write the correct letter on your answer sheet.

1.1 The constant value in the expression $2x^2 + 3x - 5$ is _____ (3)

- A 5
B -5
C 3
D -3

1.2 How many terms are in the expression $3x^2 + 2x - 5$? _____ (3)

- A 1
B 2
C 3
D 4

1.3 Determine the following two terms in the sequence: _____ (3)

- A 48; 56
B -48; -56
C -48; 56
D 48; 56

1.4 Prime numbers that lie between 8 and 22: _____ (3)

- A 11, 13, 17, 19
B 11, 17, 19, 23
C 11, 13, 17, 19
D 11, 13, 17, 19, 23

1.5 $\sqrt{324}$ is _____ (3)

- A 18
B 74
C $\sqrt{324}$
D none

1.6 If $x = 2$, the value of $3x^2 + 4x$ would be: _____ (3)

- A 10
B 12
C 14
D 16

6 x 1 = 6

QUESTION 2: WHOLE NUMBERS & INTEGERS

2.1 Write 345:15 in it's simplest form. _____ (2)

2.2 If 10 contractors can build a house in 10 days. How many contractors, working at the same rate, will be needed to build the house in 4 days? _____ (3)

2.3 John drove 620km in 5 and a half hours. Calculate his average speed. _____ (3)

2.4 Write the number 48 as a product of its prime factors. Write the prime factors in exponential form. _____ (4)

2.5 Calculate the following:

- 2.5.1 $3 \times 10^3 + 4 \times 10^2$ _____ (3)
2.5.2 $3 \times 10^3 + 4 \times 10^2$ _____ (3)
[16]

QUESTION 3: EXPONENTS

3.1 $5^2 \times \sqrt{5} + 5^2$ _____ (2)

3.2 $5^2 \times 5^3$ _____ (2)

3.3 $5^2 \times 5^3$ _____ (3)

3.4 $5^2 \times 5^3$ _____ (3)

[10]

Maths Paper 1 7th November 2014

Lei Huang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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The Game Believes in You Greg Toppo, 2025-06-25 What if schools from the wealthiest suburban nursery school to the grittiest urban high school thrummed with the sounds of deep immersion More and more people believe that can happen with the aid of video games Greg Toppo's *The Game Believes in You* presents the story of a small group of visionaries who for the past 40 years have been pushing to get game controllers into the hands of learners Among the game revolutionaries you'll meet in this book A game designer at the University of Southern California leading a team to design a video game version of Thoreau's *Walden Pond* A young neuroscientist and game designer whose research on *Math Without Words* is revolutionizing how the subject is taught especially to students with limited English abilities A Virginia Tech music instructor who is leading a group of high school aged boys through the creation of an original opera staged totally in the online game *Minecraft* Experts argue that games do truly believe in you They focus inspire and reassure people in ways that many teachers can't Games give people a chance to learn at their own pace take risks cultivate deeper understanding fail and want to try again right away and ultimately succeed in ways that too often elude them in school This book is sure to excite and inspire educators and parents as well as provoke some passionate debate

Integration as Solution for Advanced Smart Urban Transport Systems Grzegorz Sierpiński, 2018-08-25 Methods of advanced data collecting and their analysis models which help with decision problems as well as technical solutions which improve the integrity of contemporary transport systems at urban area are only some of many problems connected with integration in passenger and freight transport which have been discussed in this book The book expresses case study based scientific and practical approach to the problems of contemporary transport systems The proposed methods and models enable a system approach to assess current solutions In turn implementation proposals may support the improvement of the integrity of individual elements of transport systems and thus increase its effectiveness on the global scale With regard to the research results discussed and the selected solutions applied the book primarily addresses the needs of three target groups Scientists and researchers ITS field Local authorities responsible for the transport systems at the urban and regional level Representatives of business traffic strategy management and industry manufacturers of ITS components This book gathers selected papers presented at the 15th Scientific and Technical Conference Transport Systems Theory and Practice organised by the Department of Transport Systems and Traffic Engineering at the Faculty of Transport of the Silesian University of Technology The conference was held in Katowice Poland on September 17-19 2018

Rebirth Jennifer Whitmer Taylor, 2025-04-10 Reimagining both the House Museum and Reconstruction memory for the twenty first century In *Rebirth* public historian Jennifer Whitmer Taylor provides a compelling account of how to reenvision the historic house museum Using the Museum of the Reconstruction Era known as the Woodrow Wilson Family Home for most of its many years as a house museum as a case study Taylor explores the challenges and possibilities that face public history practitioners and museum professionals who provide complex

interpretations of contested public memory Anchored by oral history interviews with docents who interact directly with the visiting public Rebirth considers how a dated and seemingly outmoded venue for interpretation the historic house museum can be reimagined for twenty first century audiences Taylor offers best practices for interpreting issues such as white supremacy and domestic political terrorism for public audiences and she challenges readers to contemplate how historic sites interact with and contribute to vital contemporary political conversations Rebirth is a necessary book for public history practitioners students of museum studies and historic site interpretation and those interested in the history and memory of the Reconstruction era

Intelligent Systems for Crisis Management Orhan Altan, Madhu Chandra, Filiz Sunar, Tullio Joseph Tanzi, 2019-02-06 In the past several years there have been significant technological advances in the field of crisis response However many aspects concerning the efficient collection and integration of geo information applied semantics and situation awareness for disaster management remain open Improving crisis response systems and making them intelligent requires extensive collaboration between emergency responders disaster managers system designers and researchers alike To facilitate this process the Gi4DM GeoInformation for Disaster Management conferences have been held regularly since 2005 The events are coordinated by the Joint Board of Geospatial Information Societies JB GIS and ICSU GeoUnions This book presents the outcomes of the Gi4DM 2018 conference which was organised by the ISPRS URSI Joint Working Group ICWG III IVa Disaster Assessment Monitoring and Management and held in Istanbul Turkey on 18 21 March 2018 It includes 12 scientific papers focusing on the intelligent use of geo information semantics and situation awareness

The Psychology of Magic and the Magic of Psychology Amir Raz, Jay A. Olson, Gustav Kuhn, 2016-11-18 Magicians have dazzled audiences for many centuries however few researchers have studied how let alone why most tricks work The psychology of magic is a nascent field of research that examines the underlying mechanisms that conjurers use to achieve enchanting phenomena including sensory illusions misdirection of attention and the appearance of mind control and nuanced persuasion Most studies to date have focused on either the psychological principles involved in watching and performing magic or neuromagic the neural correlates of such phenomena Whereas performers sometimes question the contributions that modern science may offer to the advancement of the magical arts the history of magic reveals that scientific discovery often charts new territories for magicians In this research topic we sketch out the symbiotic relationship between psychological science and the art of magic On the one hand magic can inform psychology with particular benefits for the cognitive social developmental and transcultural components of behavioural science Magicians have a large and robust set of effects that most researchers rarely exploit Incorporating these effects into existing experimental even clinical paradigms paves the road to innovative trajectories in the study of human behaviour For example magic provides an elegant way to study the behaviour of participants who may believe they had made choices that they actually did not make Moreover magic fosters a more ecological approach to experimentation whereby scientists can probe participants in more natural

environments compared to the traditional lab based settings Examining how magicians consistently influence spectators for example can elucidate important aspects in the study of persuasion trust decision making and even processes spanning authorship and agency Magic thus offers a largely underused armamentarium for the behavioural scientist and clinician On the other hand psychological science can advance the art of magic The psychology of deception a relatively understudied field explores the intentional creation of false beliefs and how people often go wrong Understanding how to methodically exploit the tenuous twilight zone of human vulnerabilities perceptual logical emotional and temporal becomes all the more revealing when top down influences including expectation symbolic thinking and framing join the fray Over the years science has permitted magicians to concoct increasingly effective routines and to elicit heightened feelings of wonder from audiences Furthermore on occasion science leads to the creation of novel effects or the refinement of existing ones based on systematic methods For example by simulating a specific card routine using a series of computer stimuli researchers have decomposed the effect and reconstructed it into a more effective routine Other magic effects depend on meaningful psychological knowledge such as which type of information is difficult to retain or what changes capture attention Behavioural scientists measure and study these factors By combining analytical findings with performer intuitions psychological science begets effective magic Whereas science strives on parsimony and independent replication of results magic thrives on reproducing the same effect with multiple methods to obscure parsimony and minimise detection This Research Topic explores the seemingly orthogonal approaches of scientists and magicians by highlighting the crosstalk as well as rapprochement between psychological science and the art of deception

Numerical and Evolutionary Optimization 2018 Adriana Lara, Marcela Quiroz, Efrén Mezura-Montes, Oliver Schütze, 2019-11-19 This book was established after the 6th International Workshop on Numerical and Evolutionary Optimization NEO representing a collection of papers on the intersection of the two research areas covered at this workshop numerical optimization and evolutionary search techniques While focusing on the design of fast and reliable methods lying across these two paradigms the resulting techniques are strongly applicable to a broad class of real world problems such as pattern recognition routing energy lines of production prediction and modeling among others This volume is intended to serve as a useful reference for mathematicians engineers and computer scientists to explore current issues and solutions emerging from these mathematical and computational methods and their applications

Effective Medium-term Planning for Teachers Lee Jerome, Marcus Bhargava, 2015-01-21 Effective medium term planning is the holy grail of planning Once teachers are able to conceptualise learning over a longer period of time they are empowered to achieve outstanding learning as part of their everyday teaching This book explains why medium term plans are important and how to go about constructing them Key coverage includes Practical guidance to support teachers to build their own effective medium term plans Examples of planning in action exploring key principles that can be applied to your own practice Theoretical and practical justifications for the importance of medium term planning Exploration of the links

between raising attainment and effective medium term planning This is essential reading for initial teacher education students on university based and school based courses preparing to teach in primary and secondary education and early career teachers seeking to continue their professional learning

Machine Learning and Knowledge Discovery in Databases Michele Berlingerio, Francesco Bonchi, Thomas Gärtner, Neil Hurley, Georgiana Ifrim, 2019-01-22 The three volume proceedings LNAI 11051 11053 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2018 held in Dublin Ireland in September 2018 The total of 131 regular papers presented in part I and part II was carefully reviewed and selected from 535 submissions there are 52 papers in the applied data science nectar and demo track The contributions were organized in topical sections named as follows Part I adversarial learning anomaly and outlier detection applications classification clustering and unsupervised learning deep learning ensemble methods and evaluation Part II graphs kernel methods learning paradigms matrix and tensor analysis online and active learning pattern and sequence mining probabilistic models and statistical methods recommender systems and transfer learning Part III ADS data science applications ADS e commerce ADS engineering and design ADS financial and security ADS health ADS sensing and positioning nectar track and demo track

Encyclopedia of Public Administration and Public Policy - 5 Volume Set Domonic A. Bearfield, Evan Berman, Melvin J. Dubnick, 2020-08-14 Now in its third edition Encyclopedia of Public Administration and Public Policy remains the definitive source for article length presentations spanning the fields of public administration and public policy It includes entries for Budgeting Bureaucracy Conflict resolution Countries and regions Court administration Gender issues Health care Human resource management Law Local government Methods Organization Performance Policy areas Policy making process Procurement State government Theories This revamped five volume edition is a reconceptualization of the first edition by Jack Rabin It incorporates over 225 new entries and over 100 revisions including a range of contributions and updates from the renowned academic and practitioner leaders of today as well as the next generation of top scholars The entries address topics in clear and coherent language and include references to additional sources for further study

Teaching Kids to Thrive Debbie Silver, Dedra Stafford, 2017-04-07 There s more to student success than standards and test scores The modern view of student achievement focuses on high test scores higher standards and racing to the top Thrive skills fit with new ESSA requirements to go beyond basic academic measurements in order to equip students for lifelong success Debbie Silver and Dedra Stafford present a practical handbook that guides teachers and parents in fostering learners who are socially and emotionally healthy and prepared to undertake future challenges Through practical examples precise strategies and specific tools this book demonstrates how to empower learners in areas that include Using mindfulness strategies to help students tap their inner strengths Learning to self regulate and control other executive brain functions Developing growth mindsets along with perseverance and resilience Cultivating a sense of responsibility honesty and integrity Encouraging a capacity for empathy

and gratitude Grounded in decades of psychological research Teaching Kids to Thrive merges academic social and self skills to stimulate personal and school achievement

Knowledge and Change in African Universities Michael Cross, amasa ndofirepi, 2017-01-28 Besides the ongoing concern with the epistemological and theoretical hegemony of the West in African academic practice the book aims at understanding how knowledge is produced and controlled through the interplay of the politics of knowledge and current intellectual discourses in universities in Africa In this regard the book calls for African universities to relocate from the position of object to subject in order to gain a form of liberated epistemological voice more responsive to the social and economic complexities of the continent In itself this is a critical expos of contemporary practices in knowledge advancement in the continent Broadly the book addresses the following questions How can African universities reinvent knowledge production and dissemination in the face of the dominant Eurocentrism so pervasive and characteristic of academic practice in Africa to enhance their relevance to the contexts in which they operate How can such change particularly at knowledge production and distribution levels be undertaken without falling into an intellectual and discursive ghettoization in the global context What then is the role of academics policy makers and curriculum and program designers in dealing with biases and distortions to integrate policies knowledge and pedagogy that reflect current cultural diversity both local and global Against this backdrop while some contributions in this book argue that emancipatory epistemic voice in African universities is not yet born or it is struggling with little success many dissenting voices charge that if Africans do not take responsibility and construct knowledge strategies for their own emancipation who will

Learning to Understand Remote Sensing Images Qi Wang, 2019-09-30 With the recent advances in remote sensing technologies for Earth observation many different remote sensors are collecting data with distinctive properties The obtained data are so large and complex that analyzing them manually becomes impractical or even impossible Therefore understanding remote sensing images effectively in connection with physics has been the primary concern of the remote sensing research community in recent years For this purpose machine learning is thought to be a promising technique because it can make the system learn to improve itself With this distinctive characteristic the algorithms will be more adaptive automatic and intelligent This book introduces some of the most challenging issues of machine learning in the field of remote sensing and the latest advanced technologies developed for different applications It integrates with multi source multi temporal multi scale data and mainly focuses on learning to understand remote sensing images Particularly it presents many more effective techniques based on the popular concepts of deep learning and big data to reach new heights of data understanding Through reporting recent advances in the machine learning approaches towards analyzing and understanding remote sensing images this book can help readers become more familiar with knowledge frontier and foster an increased interest in this field

Selected Areas in Cryptography - SAC 2017 Carlisle Adams, Jan Camenisch, 2018-01-12 This book contains revised selected papers from the 24th International Conference on Selected Areas in Cryptography SAC 2017 held in Ottawa ON Canada in August 2017 The

23 full papers presented in this volume were carefully reviewed and selected from 66 submissions The focus of the conference was on specific themes in the area of cryptographic system design and analysis such as Design and analysis of symmetric key cryptosystems Primitives for symmetric key cryptography including block and stream ciphers hash functions and MAC algorithms Efficient implementations of symmetric and public key algorithms

Mathematics and Computation in Music Tom Collins,David Meredith,Anja Volk,2015-06-15 This book constitutes the thoroughly refereed proceedings of the 5th International Conference on Mathematics and Computation in Music MCM 2015 held in London UK in June 2015 The 24 full papers and 14 short papers presented were carefully reviewed and selected from 64 submissions The papers feature research that combines mathematics or computation with music theory music analysis composition and performance They are organized in topical sections on notation and representation music generation patterns performance similarity and contrast post tonal music analysis geometric approaches deep learning and scales

Neutrosophic Sets and Systems, vol. 7/2015 H. E. Khalid,K. Mondal,S. Pramanik,A. A. Salama,S. Broumi,F. Smarandache,F. Yuhua,M. Ali,V. Patrascu,M. Shabir, Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc

Innovating Education in Technology-Supported Environments Kam Cheong Li,Eva Yuen Mei Tsang,Billy Tak Ming Wong,2020-09-29 This book explores a broad range of innovations in education such as flipped classrooms the educational use of social media mobile learning and educational resources It also includes theoretical discussions and practical applications related to the use of augmented reality and educational technologies for improving students engagement and facilitating their future studies and careers Featuring case studies and practical applications illustrating the effectiveness of new modes of education in which the latest technologies and innovations are widely used in the global context the book helps readers develop their awareness of the related insights and implications in order to deepen their understanding and stimulate critical thinking as to how new technologies have made learning and teaching easier in different educational settings

Measuring Teachers' Beliefs Quantitatively Safrudiannur,2020-04-06 The use of Likert scale instruments for measuring teachers beliefs is criticized because of amplifying social desirability reducing the willingness to make differentiations and often providing less or no contexts Those weaknesses may distort teachers responses to a Likert scale instrument causing inconsistencies between their responses and their actions Therefore the author offers an alternative approach by employing rank then rate items and considering students abilities as one of the factors affecting teachers beliefs The results confirm that the offered approach may give a better prediction about teachers beliefs than does a Likert scale instrument

Computational Intelligence in Photovoltaic Systems Emanuele Ogliari,Sonia Leva,2019-09-05 Photovoltaics among the different renewable energy sources RES has become more popular In recent years however many research topics have arisen as a result of the problems

that are constantly faced in smart grid and microgrid operations such as forecasting of the output of power plant production storage sizing modeling and control optimization of photovoltaic systems Computational intelligence algorithms evolutionary optimization neural networks fuzzy logic etc have become more and more popular as alternative approaches to conventional techniques for solving problems such as modeling identification optimization availability prediction forecasting sizing and control of stand alone grid connected and hybrid photovoltaic systems This Special Issue will investigate the most recent developments and research on solar power systems This Special Issue Computational Intelligence in Photovoltaic Systems is highly recommended for readers with an interest in the various aspects of solar power systems and includes 10 original research papers covering relevant progress in the following non exhaustive fields Forecasting techniques deterministic stochastic etc DC AC converter control and maximum power point tracking techniques Sizing and optimization of photovoltaic system components Photovoltaics modeling and parameter estimation Maintenance and reliability modeling Decision processes for grid operators

Crisis Wasted? Frances Cowell, Matthew Levins, 2015-12-14 Effective risk management in today's ever changing world Crisis Wasted Leading Risk Managers on Risk Culture sheds light on today's risk management landscape through a unique collection of interviews from risk leaders in both the banking and investment industries These interviews zero in on the risk culture of organisations effective risk management in practice and the sometimes paradoxical effects of new regulations and how they affect decision making in financial organisations They offer genuine insight into regulatory processes and priorities and their implications for the stability of the global financial system As trending topics in the risk management field each of these subject areas is relevant to the work of today's risk management professionals In addition to the forward focused text this reference provides access to a wealth of premium online content Risk management has become an area of focus for companies since the financial crises that shook the international community over the past decade but despite high levels of introspection and changes to key processes many financial houses are still experiencing large losses Understanding today's risk environment can help you improve risk management tactics Access essential information both in print and online Discover the most important topics in today's risk management field Explore interviews with 1 risk management leaders Learn about ground breaking recent innovations in risk management thinking Crisis Wasted Leading Risk Managers on Risk Culture is an integral resource for professionals responsible for minimising organisational risk as well as those who want to better understand the risk culture of today's world

STEM and Social Justice: Teaching and Learning in Diverse Settings Cheryl B. Leggon, Michael S. Gaines, 2017-06-06 This volume focuses on selected innovative programs designed to augment the science engineering engineering and mathematics STEM workforce through increasing and enhancing the participation of under represented groups The programs span the STEM career pathway primary secondary and tertiary education and professional development and socialization in the United States South Africa and New Zealand Similarities as well as differences between

and among programs across nations will be systematically analyzed for lessons learned The conceptualization for this volume developed over the past several years during various international conferences starting in Havana Cuba in 2006 and continuing at meetings in Japan 2014 South Africa 2013 and 2015 and New Zealand 2015

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