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General Certificate of Secondary Education
January 2020

Centre Number

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Mathematics

Unit M6 Paper 1
(Non-Calculator)
Foundation Tier



[GMC61]

GMC61

WEDNESDAY 15 JANUARY, 9.15am–10.15am

TIME

1 hour.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

You must answer the questions in the spaces provided.

Do not write outside the boxed area on each page, on blank pages or tracing paper.

Complete in black ink only. Do not write with a gel pen.

Answer all fifteen questions.

All working should be clearly shown in the spaces provided. Marks may be awarded for partially correct solutions.

You must not use a calculator for this paper.

INFORMATION FOR CANDIDATES

The total mark for this paper is 50.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

You should have a ruler, compasses and a protractor.

The Formula Sheet is on page 2.

12501



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Math 15 January 2014 Mark Scheme

**Yanhui Guo, Yaman Akbulut, Abdulkadir
Sengür, Rong Xia, Florentin
Smarandache**

Math 15 January 2014 Mark Scheme:

Educational Paths to Mathematics Uwe Gellert, Joaquim Giménez Rodríguez, Corinne Hahn, Sonia Kafoussi, 2015-05-18

This book offers fresh insight and understanding of the many ways in which children youth and adults may find their paths to mathematics The chapters of the volume offer and analyse promising new ways into mathematics The focus is on spaces and modalities of learning dialogue and inquiry embodiment and aesthetic experience information and communication technology and on the use of mathematics in public communication The chapters present new mathematical activities and conceptions enriching the repertoire of mathematics education practices Critical commentaries discuss the innovative potential of the new approaches to the teaching and learning of mathematics As a consequence the commentaries point to requirements and open issues in the field of research in mathematics education The volume is remarkably international Teachers and researchers from 14 countries authored 21 chapters and 7 commentaries The reader is invited to reflect on the particular effect of presenting avenues to mathematics contrived in diverse national settings in which the praxis of mathematics education might look different compared to what happens in the reader's place The book starts a series of sourcebooks edited by CIEAEM the Commission Internationale pour l'Etude et l'Amélioration de l'Enseignement des Mathématiques International Commission for the Study and Improvement of Mathematics Education **Class 6 Math Questions and**

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and Multiples Questions Chapter 6 Functions and Graphs Questions Chapter 7 Fundamental Algebra Questions Chapter 8 Geometrical Concepts and Properties Questions Chapter 9 Integers Questions Chapter 10 Number Sequences Questions Chapter 11 Perimeter and Area of Geometrical Figures Questions Chapter 12 Rational Numbers Questions Chapter 13 Ratio Rate and Speed Questions Chapter 14 Surface Area and Volume Questions The Algebraic Equations and Simple Inequalities Quiz Questions PDF e Book Chapter 1 interview questions and answers on Equations and inequalities examples of equations inequalities learning making formula Math formulas problem solving with algebra simple equations solutions solving simple equations and writing algebraic expressions The Angle Properties of Polygons Quiz Questions PDF e Book Chapter 2 interview questions and answers on Convex polygons polygons and types of triangles The Arithmetical Problems and Percentages Quiz Questions PDF e Book Chapter 3 interview questions and answers on Commission calculations discount calculations expressing quantities and percentage how to do percentages increasing decreasing quantities percentage comparison percentage fractions and decimals percentage of number and tax calculations The Estimation and Approximation Quiz Questions PDF e Book Chapter 4 interview questions and answers on Estimation and rounding round off values rounding numbers rounding off numbers and significant figures The Factors and Multiples Quiz Questions PDF e Book Chapter 5 interview questions and answers on Cubes and cube roots factors and multiples highest common factor index notation least common multiple prime and composite numbers prime factorization squares and square roots The Functions and Graphs Quiz Questions PDF e Book Chapter 6 interview questions and answers on Cartesian plane finding coordinates and idea of functions The Fundamental Algebra Quiz Questions PDF e Book Chapter 7 interview questions and answers on Algebra rules algebraic expressions addition and subtraction algebraic notation brackets in simplification factorization evaluation of algebraic expressions factorization by grouping linear algebraic expressions and fractional coefficients and writing algebraic expressions The Geometrical Concepts and Properties Quiz Questions PDF e Book Chapter 8 interview questions and answers on Adjacent angles Cartesian plane complementary angles geometric concepts line rays and segments supplementary angles and types of angles The Integers Quiz Questions PDF e Book Chapter 9 interview questions and answers on Absolute value of integer addition of integers distributive law of multiplication division of integers multiplication of integers number line rules of integers and subtraction of integers The Number Sequences Quiz Questions PDF e Book Chapter 10 interview questions and answers on Number sequences The Perimeter and Area of Geometrical Figures Quiz Questions PDF e Book Chapter 11 interview questions and answers on Units of area The Ratio Rate and Speed Quiz Questions PDF e Book Chapter 12 interview questions and answers on Average rate average speed rate calculations ratio calculations ratio examples ratio increase and decrease and time calculation The Rational Numbers Quiz Questions PDF e Book Chapter 13 interview questions and answers on Arithmetical operations on rational numbers rational numbers multiplication and division of rational numbers ordering of rational numbers real numbers calculations terminating and

recurring decimals The Surface Area and Volume Quiz Questions PDF e Book Chapter 14 interview questions and answers on Cylinders and volume of fluids

Computational Aerodynamic Modeling of Aerospace Vehicles Mehdi Ghoreyshi, Karl Jenkins, 2019-03-08 Currently the use of computational fluid dynamics CFD solutions is considered as the state of the art in the modeling of unsteady nonlinear flow physics and offers an early and improved understanding of air vehicle aerodynamics and stability and control characteristics This Special Issue covers recent computational efforts on simulation of aerospace vehicles including fighter aircraft rotorcraft propeller driven vehicles unmanned vehicle projectiles and air drop configurations The complex flow physics of these configurations pose significant challenges in CFD modeling Some of these challenges include prediction of vortical flows and shock waves rapid maneuvering aircraft with fast moving control surfaces and interactions between propellers and wing fluid and structure boundary layer and shock waves Additional topic of interest in this Special Issue is the use of CFD tools in aircraft design and flight mechanics The problem with these applications is the computational cost involved particularly if this is viewed as a brute force calculation of vehicle s aerodynamics through its flight envelope To make progress in routinely using of CFD in aircraft design methods based on sampling model updating and system identification should be considered

Using Noise to Characterize Vision Rémy Allard, Jocelyn Faubert, Denis G. Pelli, 2016-03-02 Noise has been widely used to investigate the processing properties of various visual functions e g detection discrimination attention perceptual learning averaging crowding face recognition in various populations e g older adults amblyopes migrainers dyslexic children using noise along various dimensions e g pixel noise orientation jitter contrast jitter The reason to use external noise is generally not to characterize visual processing in external noise per se but rather to reveal how vision works in ordinary conditions when performance is limited by our intrinsic noise rather than externally added noise For instance reverse correlation aims at identifying the relevant information to perform a given task in noiseless conditions and measuring contrast thresholds in various noise levels can be used to understand the impact of intrinsic noise that limits sensitivity to noiseless stimuli Why use noise Since Fechner named it psychophysics has always emphasized the systematic investigation of conditions that break vision External noise raises threshold hugely and selectively In hearing Fletcher used noise in his famous critical band experiments to reveal frequency selective channels in hearing Critical bands have been found in vision too More generally the big reliable effects of noise give important clues to how the system works And simple models have been proposed to account for the effects of visual noise As noise has been more widely used questions have been raised about the simplifying assumptions that link the processing properties in noiseless conditions to measurements in external noise For instance it is usually assumed that the processing strategy or mechanism used to perform a task and its processing properties e g filter tuning are unaffected by the addition of external noise Some have suggested that the processing properties could change with the addition of external noise e g change in filter tuning or more lateral masking in noise which would need to be considered before drawing conclusions about the processing properties in

noiseless condition Others have suggested that different processing properties or mechanisms could be solicited in low and high noise conditions complicating the characterization of processing properties in noiseless condition based on processing properties identified in noise conditions The current Research Topic probes further into what the effects of visual noise tell us about vision in ordinary conditions Our Editorial gives an overview of the articles in this special issue

Atlas of Knowledge Katy Borner, 2015-03-20 The power of mapping principles for visualizing knowledge illustrated by many stunning large scale full color maps Maps of physical spaces locate us in the world and help us navigate unfamiliar routes Maps of topical spaces help us visualize the extent and structure of our collective knowledge they reveal bursts of activity pathways of ideas and borders that beg to be crossed This book from the author of *Atlas of Science* describes the power of topical maps providing readers with principles for visualizing knowledge and offering as examples forty large scale and more than 100 small scale full color maps Today data literacy is becoming as important as language literacy Well designed visualizations can rescue us from a sea of data helping us to make sense of information connect ideas and make better decisions in real time In *Atlas of Knowledge* leading visualization expert Katy Borner makes the case for a systems science approach to science and technology studies and explains different types and levels of analysis Drawing on fifteen years of teaching and tool development she introduces a theoretical framework meant to guide readers through user and task analysis data preparation analysis and visualization visualization deployment and the interpretation of science maps To exemplify the framework the *Atlas* features striking and enlightening new maps from the popular Places Spaces Mapping Science exhibit that range from Key Events in the Development of the Video Tape Recorder to Mobile Landscapes Location Data from Cell Phones for Urban Analysis to Literary Empires Mapping Temporal and Spatial Settings of Victorian Poetry to Seeing Standards A Visualization of the Metadata Universe She also discusses the possible effect of science maps on the practice of science

Flow-Based Optimization of Products or Devices Nils Tångefjord Basse, 2020-11-13 Flow based optimization of products and devices is an immature field compared to the corresponding topology optimization based on solid mechanics However it is an essential part of component development with both internal and or external flow The aim of this book is two fold i to provide state of the art examples of flow based optimization and ii to present a review of topology optimization for fluid based problems

Collected Papers. Volume XIII Florentin Smarandache, 2022-09-15 This thirteenth volume of *Collected Papers* is an eclectic tome of 88 papers in various fields of sciences such as astronomy biology calculus economics education and administration game theory geometry graph theory information fusion decision making instantaneous physics quantum physics neutrosophic logic and set non Euclidean geometry number theory paradoxes philosophy of science scientific research methods statistics and others structured in 17 chapters Neutrosophic Theory and Applications Neutrosophic Algebra Fuzzy Soft Sets Neutrosophic Sets Hypersoft Sets Neutrosophic Semigroups Neutrosophic Graphs Superhypergraphs Plithogeny Information Fusion Statistics Decision Making Extenics Instantaneous Physics Paradoxism

Mathematica Miscellanea comprising 965 pages published between 2005 2022 in different scientific journals by the author alone or in collaboration with the following 110 co authors alphabetically ordered from 26 countries Abdullah Gamal Sania Afzal Firoz Ahmad Muhammad Akram Sheriful Alam Ali Hamza Ali H M Al Obaidi Madeleine Al Tahan Assia Bakali Atiqe Ur Rahman Sukanto Bhattacharya Bilal Hadjadji Robert N Boyd Willem K M Brauers Umit Cali Youcef Chibani Victor Christianto Chunxin Bo Shyamal Dalapati Mario Dalc n Arup Kumar Das Elham Davneshvar Bijan Davvaz Irfan Deli Muhammet Deveci Mamouni Dhar R Dhavaseelan Balasubramanian Elavarasan Sara Farooq Haipeng Wang Ugur Halden Le Hoang Son Hongnian Yu Qays Hatem Imran Mayas Ismail Saeid Jafari Jun Ye Ilanthenral Kandasamy W B Vasantha Kandasamy Darjan Karaba evi Abdullah Karg n Vasilios N Katsikis Nour Eldeen M Khalifa Madad Khan M Khoshnevisan Tapan Kumar Roy Pinaki Majumdar Sreepurna Malakar Masoud Ghods Minghao Hu Mingming Chen Mohamed Abdel Basset Mohamed Talea Mohammad Hamidi Mohamed Loey Mihnea Alexandru Moisescu Muhammad Ihsan Muhammad Saeed Muhammad Shabir Mumtaz Ali Muzzamal Sitara Nassim Abbas Munazza Naz Giorgio Nordo Mani Parimala Ion P tra cu Gabrijela Popovi K Porselvi Surapati Pramanik D Preethi Qiang Guo Riad K Al Hamido Zahra Rostami Said Broumi Saima Anis Muzafer Sara evi Ganeshsree Selvachandran Selvaraj Ganesan Shammya Shananda Saha Marayanagaraj Shanmugapriya Songtao Shao Sori Tjandrah Simbolon Florentin Smarandache Predrag S Stanimirovi Dragi a Stanujki Raman Sundareswaran Mehmet ahin Ovidiu Ilie andru Abdulkadir eng r Mohamed Talea Ferhat Ta Sel uk Topal Alptekin Uluta Ramalingam Udhayakumar Yunita Umniyati J Vimala Luige Vl d reanu tefan Vl du escu Yaman Akbulut Yanhui Guo Yong Deng You He Young Bae Jun Wangtao Yuan Rong Xia Xiaohong Zhang Edmundas Kazimieras Zavadskas Zayen Azzouz Omar Xiaohong Zhang Zhirou Ma

Advances in Cryptology - CRYPTO 2018 Hovav Shacham, Alexandra Boldyreva, 2018-08-11 The three volume set LNCS 10991 LNCS 10992 and LNCS 10993 constitutes the refereed proceedings of the 38th Annual International Cryptology Conference CRYPTO 2018 held in Santa Barbara CA USA in August 2018 The 79 revised full papers presented were carefully reviewed and selected from 351 submissions The papers are organized in the following topical sections secure messaging implementations and physical attacks prevention authenticated and format preserving encryption cryptanalysis searchable encryption and differential privacy secret sharing encryption symmetric cryptography proofs of work and proofs of stake proof tools key exchange symmetric cryptanalysis hashes and random oracles trapdoor functions round optimal MPC foundations lattices lattice based ZK efficient MPC quantum cryptography MPC garbling information theoretic MPC oblivious transfer non malleable codes zero knowledge and obfuscation

An Efficient Image Segmentation Algorithm Using Neutrosophic Graph Cut Yanhui Guo, Yaman Akbulut, Abdulkadir Sengür, Rong Xia, Florentin Smarandache , Segmentation is considered as an important step in image processing and computer vision applications which divides an input image into various non overlapping homogenous regions and helps to interpret the image more conveniently This paper presents an efficient image segmentation algorithm using neutrosophic graph cut NGC

How Not to Be Wrong Jordan

Ellenberg, 2015-05-26 Witty compelling and just plain fun to read Evelyn Lamb Scientific American The Freakonomics of math a math world superstar unveils the hidden beauty and logic of the world and puts its power in our hands The math we learn in school can seem like a dull set of rules laid down by the ancients and not to be questioned In How Not to Be Wrong Jordan Ellenberg shows us how terribly limiting this view is Math isn't confined to abstract incidents that never occur in real life but rather touches everything we do the whole world is shot through with it Math allows us to see the hidden structures underneath the messy and chaotic surface of our world It's a science of not being wrong hammered out by centuries of hard work and argument Armed with the tools of mathematics we can see through to the true meaning of information we take for granted How early should you get to the airport What does public opinion really represent Why do tall parents have shorter children Who really won Florida in 2000 And how likely are you really to develop cancer How Not to Be Wrong presents the surprising revelations behind all of these questions and many more using the mathematician's method of analyzing life and exposing the hard won insights of the academic community to the layman minus the jargon Ellenberg chases mathematical threads through a vast range of time and space from the everyday to the cosmic encountering among other things baseball Reaganomics daring lottery schemes Voltaire the replicability crisis in psychology Italian Renaissance painting artificial languages the development of non Euclidean geometry the coming obesity apocalypse Antonin Scalia's views on crime and punishment the psychology of slime molds what Facebook can and can't figure out about you and the existence of God Ellenberg pulls from history as well as from the latest theoretical developments to provide those not trained in math with the knowledge they need Math as Ellenberg says is an atomic powered prosthesis that you attach to your common sense vastly multiplying its reach and strength With the tools of mathematics in hand you can understand the world in a deeper more meaningful way How Not to Be Wrong will show you how

Proceedings of the International Conference on Recent Cognizance in Wireless Communication & Image Processing Nitin Afzalpulkar, Vishnu Srivastava, Ghanshyam Singh, Deepak Bhatnagar, 2016-04-28 This volume comprises the proceedings of the International Conference on Recent Cognizance in Wireless Communication and ii position papers describing work in progress or research directions for computational creativity This work will be useful to professionals and researchers working in the core areas of wireless communications and image processing

Singularity Theory for Non-Twist KAM Tori A. González-Enríquez, A. Haro, R. de la Llave, 2014-01-08 In this monograph the authors introduce a new method to study bifurcations of KAM tori with fixed Diophantine frequency in parameter dependent Hamiltonian systems It is based on Singularity Theory of critical points of a real valued function which the authors call the potential The potential is constructed in such a way that nondegenerate critical points of the potential correspond to twist invariant tori i.e. with nondegenerate torsion and degenerate critical points of the potential correspond to non twist invariant tori Hence bifurcating points correspond to non twist tori

SAT Math Prep Kaplan Test Prep, 2017-07-04 Kaplan's SAT Math Prep provides the realistic practice key concepts and expert advice

you need to master the most important math topics on the test This focused guide includes in depth content coverage and effective score raising strategies from Kaplan s top math experts to help you face the SAT with confidence Realistic Practice Effective Strategies 16 comprehensive practice sets with detailed explanations More than 250 practice questions with expert explanations Methods and strategies to help you build speed and improve your score Techniques for tackling multiple choice grid in and extended thinking questions Review of the most important math concepts from basic algebra to advanced trig Expert Guidance 9 out of 10 Kaplan students get into one or more of their top choice college We know the test Our experts have put tens of thousands of hours into studying the SAT using real data to design the most effective strategies and study materials We invented test prep Kaplan has been helping students achieve their goals for over 80 years Learn more at kaptest.com The previous edition of this book was titled Kaplan Math Workbook for the New SAT

ICEL2104-Proceedings of the 9th International Conference on e-Learning Dr Oscar Saavedra Rodriguez,,Dr Teresita Arenas Yáñez,2014 *ICT Systems Security and Privacy Protection* Sabrina De Capitani di Vimercati,Fabio Martinelli,2017-05-17 This book constitutes the refereed proceedings of the 32nd IFIP TC 11 International Conference on ICT Systems Security and Privacy Protection SEC 2017 held in Rome Italy in May 2017 The 38 revised full papers presented were carefully reviewed and selected from 199 submissions The papers are organized in the following topical sections network security and cyber attacks security and privacy in social applications and cyber attacks defense private queries and aggregations operating systems and firmware security user authentication and policies applied cryptography and voting schemes software security and privacy privacy and digital signature risk management and code reuse attacks

Numerical Analysis and Optimization Mehiddin Al-Baali,Lucio Grandinetti,Anton Purnama,2015-07-16 Presenting the latest findings in the field of numerical analysis and optimization this volume balances pure research with practical applications of the subject Accompanied by detailed tables figures and examinations of useful software tools this volume will equip the reader to perform detailed and layered analysis of complex datasets Many real world complex problems can be formulated as optimization tasks Such problems can be characterized as large scale unconstrained constrained non convex non differentiable and discontinuous and therefore require adequate computational methods algorithms and software tools These same tools are often employed by researchers working in current IT hot topics such as big data optimization and other complex numerical algorithms on the cloud devising special techniques for supercomputing systems The list of topics covered include but are not limited to numerical analysis numerical optimization numerical linear algebra numerical differential equations optimal control approximation theory applied mathematics algorithms and software developments derivative free optimization methods and programming models The volume also examines challenging applications to various types of computational optimization methods which usually occur in statistics econometrics finance physics medicine biology engineering and industrial sciences

Orbital Mechanics and Astrodynamics Gerald R. Hintz,2023-01-11 Now in an updated second edition this classroom tested textbook covers

fundamental and advanced topics in orbital mechanics and astrodynamics designed to introduce readers to the basic dynamics of space flight The book explains concepts and engineering tools a student or practicing engineer can apply to mission design and navigation of space missions Through highlighting basic analytic and computer based methods for designing interplanetary and orbital trajectories the text provides excellent insight into astronautical techniques and tools The second edition includes new material on the observational basics of orbit determination information about precision calculations for data used inflight such as Mars 2020 with the Ingenuity Helicopter and improvements in mission design procedures including the automated design of gravity assist trajectories Orbital Mechanics and Astrodynamics Techniques and Tools for Space Missions is ideal for students in astronautical or aerospace engineering and related fields as well as engineers and researchers in space industrial and governmental research and development facilities as well as researchers in astronautics

Computational Intelligence in Data Mining Himansu Sekhar Behera,Janmenjoy Nayak,Bighnaraj Naik,Danilo Pelusi,2019-08-17 This proceeding discuss the latest solutions scientific findings and methods for solving intriguing problems in the fields of data mining computational intelligence big data analytics and soft computing This gathers outstanding papers from the fifth International Conference on Computational Intelligence in Data Mining ICCIDM and offer a sneak preview of the strengths and weaknesses of trending applications together with exciting advances in computational intelligence data mining and related fields

Software Verification Maria Christakis,Nadia Polikarpova,Parasara Sridhar Duggirala,Peter Schrammel,2020-12-05 This book constitutes the refereed proceedings of the 12th International Conference on Verified Software VSTTE 2020 and the 13th International Workshop on Numerical Software Verification NSV 2020 held in Los Angeles CA USA in July 2020 Due to COVID 19 pandemic the conference was held virtually The 13 papers presented in this volume were carefully reviewed and selected from 21 submissions The papers describe large scale verification efforts that involve collaboration theory unification tool integration and formalized domain knowledge as well as novel experiments and case studies evaluating verification techniques and technologies The conference was co located with the 32nd International Conference on Computer Aided Verification CAV 2020

Cybernetics and Mathematics Applications in Intelligent Systems Radek Silhavy,Roman Senkerik,Zuzana Kominkova Oplatkova,Zdenka Prokopova,Petr Silhavy,2017-04-07 This book presents new methods for and approaches to real world problems as well as exploratory research describing novel mathematics and cybernetics applications in intelligent systems It focuses on modern trends in selected fields of technological systems and automation control theory It also introduces new algorithms methods and applications of intelligent systems in automation technological and industrial applications This book constitutes the refereed proceedings of the Cybernetics and Mathematics Applications in Intelligent Systems Section of the 6th Computer Science On line Conference 2017 CSOC 2017 held in April 2017

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