

# IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

## Cambridge IGCSE™

Candidate  
name

Candidate  
number

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number

MATHEMATICS

Paper 2 (Extended)

0580/22

October/November 2022

1 hour 45 minutes

You must answer on the question paper.

For help, read: General Instructions

**Solved**

### INSTRUCTIONS

- Answer all questions.
- Use a pencil in this test paper. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answers to each question in the spaces provided.
- Do not use an erasable pen or correction fluid.
- Do not write on any bar codes.
- Any rough work should be done on separate paper.

1. The diagram shows the number of items in a box at regular intervals.

(a) Find the gradient of the line from 0 to 10 minutes. (2 marks)

(b) Find the gradient of the line from 10 to 20 minutes. (2 marks)

(c) Find the gradient of the line from 20 to 30 minutes. (2 marks)

(d) Find the gradient of the line from 30 to 40 minutes. (2 marks)

(e) Find the gradient of the line from 40 to 50 minutes. (2 marks)

2. The table shows the number of items in a box at regular intervals.

| Time (minutes) | Number of items |
|----------------|-----------------|
| 0              | 0               |
| 10             | 10              |
| 20             | 20              |
| 30             | 30              |
| 40             | 40              |
| 50             | 50              |

(a) Find the gradient of the line from 0 to 10 minutes. (2 marks)

(b) Find the gradient of the line from 10 to 20 minutes. (2 marks)

(c) Find the gradient of the line from 20 to 30 minutes. (2 marks)

(d) Find the gradient of the line from 30 to 40 minutes. (2 marks)

(e) Find the gradient of the line from 40 to 50 minutes. (2 marks)

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## November 2012 42 Math:

The Mathematics of the Uncertain Eduardo Gil, Eva Gil, Juan Gil, María Ángeles Gil, 2018-02-28 This book is a tribute to Professor Pedro Gil who created the Department of Statistics OR and TM at the University of Oviedo and a former President of the Spanish Society of Statistics and OR SEIO In more than eighty original contributions it illustrates the extent to which Mathematics can help manage uncertainty a factor that is inherent to real life Today it goes without saying that in order to model experiments and systems and to analyze related outcomes and data it is necessary to consider formal ideas and develop scientific approaches and techniques for dealing with uncertainty Mathematics is crucial in this endeavor as this book demonstrates As Professor Pedro Gil highlighted twenty years ago there are several well known mathematical branches for this purpose including Mathematics of chance Probability and Statistics Mathematics of communication Information Theory and Mathematics of imprecision Fuzzy Sets Theory and others These branches often intertwine since different sources of uncertainty can coexist and they are not exhaustive While most of the papers presented here address the three aforementioned fields some hail from other Mathematical disciplines such as Operations Research others in turn put the spotlight on real world studies and applications The intended audience of this book is mainly statisticians mathematicians and computer scientists but practitioners in these areas will certainly also find the book a very interesting read

**Cambridge IGCSE Mathematics Core and Extended Coursebook with CD-ROM** Karen Morrison, Nick Hamshaw, 2015-12-03 Revised edition of the IGCSE Mathematics Core and Extended Coursebook for the 0580 syllabus for examination from 2015      **Cambridge IGCSE® Mathematics Core and Extended Coursebook** Karen Morrison, Nick Hamshaw, 2018-03-15 This Cambridge IGCSE Mathematics Core and Extended series has been authored to meet the requirements of the Cambridge IGCSE Mathematics syllabus 0580 0980 for first examination from 2020 This second edition of Cambridge IGCSE Mathematics Core and Extended Coursebook offers complete coverage of the Cambridge IGCSE Mathematics 0580 0980 syllabus It contains detailed explanations and clear worked examples followed by practice exercises to allow students to consolidate the required mathematical skills The coursebook offers opportunities for checking prior knowledge before starting a new chapter and testing knowledge with end of chapter and exam practice exercises Core and Extended materials are presented within the same book and are clearly signposted to allow students to see the range of mathematics required for study at this level Answers are at the back of the book      *Unprecedented* David Ray Griffin, 2015-01-04 This book combines 1 the most extensive treatment of the causes and phenomena of climate change in combination with 2 an extensive treatment of social obstacles and challenges fossil fuel funded denialism media failure political failure and moral religious and economic challenges 3 the most extensive treatment of the needed transition from fossil fuel energy to clean energy and 4 the most extensive treatment of mobilization It provides the most complete most up to date treatment of the various kinds of clean energy and how they could combine to provide 70% clean energy by 2035 and

100% before 2050 both U S and worldwide      *Cambridge International AS and A Level Mathematics: Mechanics Coursebook* Jan Dangerfield, Stuart Haring, 2018-03-22 This series has been developed specifically for the Cambridge International AS A Level Mathematics 9709 syllabus to be examined from 2020 Cambridge International AS A Level Mathematics Mechanics matches the corresponding unit of the syllabus with clear and logical progression through It contains materials on topics such as velocity and acceleration force and motion friction connected particles motion in a straight line momentum and work and energy This coursebook contains a variety of features including recap sections for students to check their prior knowledge detailed explanations and worked examples end of chapter and cross topic review exercises and Explore tasks to encourage deeper thinking around mathematical concepts Answers to coursebook questions are at the back of the book      **X Games In Mathematics: Sports Training That Counts!** Timothy P Chartier, 2020-12-02 Sports analytics has gathered tremendous momentum as one of the most dynamic fields Diving deep into the numbers of sports can be game changing or simply a fun exercise for fans How do you get in the game with numbers What questions can be explored What actionable insights can be gleaned Do you like sports This book will detail ways to analyze athletics to gain insight that can otherwise be obscured Like math You ll find many mathematical topics not involving sports You ll also see how sports analytics can train you broadly in mathematics From coaching at the highest levels to national media broadcasts analytics are becoming increasingly indispensable Dive into the numbers behind soccer to basketball to baseball to boxing to swimming dive into the numbers Learn how to get in the game with sports and mathematics      **Biometric Systems** Loris Nanni, Sheryl Brahn, 2021-09-01 Because of the accelerating progress in biometrics research and the latest nation state threats to security this book s publication is not only timely but also much needed This volume contains seventeen peer reviewed chapters reporting the state of the art in biometrics research security issues signature verification fingerprint identification wrist vascular biometrics ear detection face detection and identification including a new survey of face recognition person re identification electrocardiogram ECT recognition and several multi modal systems This book will be a valuable resource for graduate students engineers and researchers interested in understanding and investigating this important field of study      **Issues in General and Specialized Mathematics Research: 2013 Edition** , 2013-05-01 Issues in General and Specialized Mathematics Research 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about General Mathematics The editors have built Issues in General and Specialized Mathematics Research 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about General Mathematics in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in General and Specialized Mathematics Research 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available

exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> Axiomatics Alma Steingart,2023-01-17 The first history of postwar mathematics offering a new interpretation of the rise of abstraction and axiomatics in the twentieth century Why did abstraction dominate American art social science and natural science in the mid twentieth century Why despite opposition did abstraction and theoretical knowledge flourish across a diverse set of intellectual pursuits during the Cold War In recovering the centrality of abstraction across a range of modernist projects in the United States Alma Steingart brings mathematics back into the conversation about midcentury American intellectual thought The expansion of mathematics in the aftermath of World War II she demonstrates was characterized by two opposing tendencies research in pure mathematics became increasingly abstract and rarified while research in applied mathematics and mathematical applications grew in prominence as new fields like operations research and game theory brought mathematical knowledge to bear on more domains of knowledge Both were predicated on the same abstractionist conception of mathematics and were rooted in the same approach modern axiomatics For American mathematicians the humanities and the sciences did not compete with one another but instead were two complementary sides of the same epistemological commitment Steingart further reveals how this mathematical epistemology influenced the sciences and humanities particularly the postwar social sciences As mathematics changed so did the meaning of mathematization Axiomatics focuses on American mathematicians during a transformative time following a series of controversies among mathematicians about the nature of mathematics as a field of study and as a body of knowledge The ensuing debates offer a window onto the postwar development of mathematics and Cold War epistemology writ large As Steingart's history ably demonstrates mathematics is the social activity in which styles of truth here abstraction become synonymous with ways of knowing Evidence, Politics, and Education Policy Lorraine M. McDonnell,M. Stephen Weatherford,2021-02-01 In Evidence Politics and Education Policy political scientists Lorraine M. McDonnell and M. Stephen Weatherford provide an original analysis of evidence use in education policymaking to help scholars and advocates shape policy more effectively The book shows how multiple types of evidence are combined as elected officials and their staffs work with researchers advocates policy entrepreneurs and intermediary organizations to develop create and implement education policies Evidence Politics and Education Policy offers an in depth understanding of the political environment in which evidence is solicited and used Two key case studies inform the book's findings The primary case a major multimethod study examines the development and early implementation of the Common Core State Standards at the national level and in four states California Indiana Massachusetts and Tennessee A comparative case analyzes the evidence used in Congressional hearings over the twenty year history of the Children's Health Insurance Program Together the two cases illustrate the conditions under which different types of evidence are used and in particular how federalism the complexity of the policy problem and the policy's maturity shape evidence use McDonnell and Weatherford focus on three

leverage points for strengthening the use of research evidence in education policy integrating research findings with value based policy ideas designing policies with incentives for research use built into their rules and organizational structures and training policy analysts to promote the use of research in policymaking venues      **Proofs Without Words III** Roger B. Nelsen,2015-12-31 Proofs without words PWWs are figures or diagrams that help the reader see why a particular mathematical statement is true and how one might begin to formally prove it true PWWs are not new many date back to classical Greece ancient China and medieval Europe and the Middle East PWWs have been regular features of the MAA journals Mathematics Magazine and The College Mathematics Journal for many years and the MAA published the collections of PWWs Proofs Without Words Exercises in Visual Thinking in 1993 and Proofs Without Words II More Exercises in Visual Thinking in 2000 This book is the third such collection of PWWs      Problems in Operations Research (Principles and Solutions) D S Hira,1995 We take great pleasure in presenting to the readers the second thoroughly revised edition of the book after a number of reprints The suggestions received from the readers have been carefully incorporated in this edition and almost the entire subject matter has been reorganised revised and rewritten      *22 Topic-wise CTET Paper 2 Mathematics& Science Previous Year Solved Papers (2024 - 2011) Class 6 - 8 Teachers | Child Development & Pedagogy, English & Hindi Language* Disha Experts,2024-10-22 The First edition of the book 22 TOPIC WISE CTET Paper 2 Mathematics Science Solved Papers 2024 2011 English Edition contains detailed Solutions to the Past 22 Solved Papers of the CTET exam from 2011 to 2024 The past 22 CTET Solved papers included are June 2011 Jan Section II mathematics has 15 Topics Section III Science has 16 Topics Section IV English 11 Topics Section V Hindi has 10 Topics The detailed solutions are provided immediately after each topic Solutions are provided for each question The languages covered in the tests are English 1st language and Hindi 2nd language The book is 100% useful for UPTET HTET MPTET CGTET UKTET HPTET BTET PTET and other STET Exam      *The Epigram Books Collection of Best New Singaporean Short Stories* Jason Erik Lundberg,2013 In recent years Singaporean literature has begun experiencing a sea change with the short story form enjoying a renaissance As a result an explosion of short fiction with a Singaporean flavour has been produced to incredible effect both by emerging and established writers For the prose enthusiast it is a very exciting time The Epigram Books Collection of Best New Singaporean Short Stories Volume One curates the finest short fiction from Singaporean writers published in 2011 and 2012 This ground breaking and unique anthology showcases stories that examine various facets of the human condition and the truths that we tell ourselves in order to exist in the everyday The styles are as varied as the authors and no two pieces are alike Here are twenty unique and breathtaking literary insights into the Singaporean psyche which examine what it means to live in this particular part of the world in this particular time      TALIS 2013 Results An International Perspective on Teaching and Learning OECD,2014-06-25 This report presents the results of the second cycle of the TALIS survey conducted in 2013      **Fruit and Vegetables** Anthony Keith Thompson,2014-10-03 Completely revised

updated and enlarged now encompassing two volumes this third edition of Fruit and Vegetables reviews and evaluates in comprehensive detail postharvest aspects of a very wide international range of fresh fruit and vegetables as it applies to their physiology quality technology harvest maturity determination harvesting methods packaging postharvest treatments controlled atmosphere storage ripening and transportation The new edition of this definitive work which contains many full colour photographs and details of species not covered in the previous editions provides key practical and commercially oriented information of great use in helping to ensure that fresh fruit and vegetables reach the retailer in optimum condition with the minimum of deterioration and spoilage With the constantly increasing experimental work throughout the world the book incorporates salient advances in the context of current work as well as that dating back over a century to give options to the reader to choose what is most relevant to their situation and needs This is important because recommendations in the literature are often conflicting part of the evaluation of the published results and reviews is to guide the reader to make suitable choices through discussion of the reasons for diverse recommendations Also included is much more on the nutritional values of fruit and vegetables and how these may vary and change postharvest There is also additional information on the origin domestication and taxonomy of fruit and vegetables putting recommendations in context Fruits and Vegetables 3e is essential reading for fruit and vegetable technologists food scientists and food technologists agricultural scientists commercial growers shippers packhouse operatives and personnel within packaging companies Researchers and upper level students in food science food technology plant and agricultural sciences will find a great deal of use within this popular book All libraries in research establishments and universities where these subjects are studied and taught should have copies readily available for users

**Analysis and Numerics of Partial Differential Equations** Franco Brezzi, Piero Colli Franzone, Ugo Pietro Gianazza, Gianni Gilardi, 2012-12-22 This volume is a selection of contributions offered by friends collaborators past students in memory of Enrico Magenes The first part gives a wide historical perspective of Magenes work in his 50 year mathematical career the second part contains original research papers and shows how ideas methods and techniques introduced by Magenes and his collaborators still have an impact on the current research in Mathematics

Nostradamus 2013: Prediction, Modeling and Analysis of Complex Systems Ivan Zelinka, Guanrong Chen, Otto E. RöSSLer, Vaclav Snasel, Ajith Abraham, 2013-11-13 Prediction of behavior of the dynamical systems analysis and modeling of its structure is vitally important problem in engineering economy and science today Examples of such systems can be seen in the world around us and of course in almost every scientific discipline including such exotic domains like the earth s atmosphere turbulent fluids economies exchange rate and stock markets population growth physics control of plasma information flow in social networks and its dynamics chemistry and complex networks To understand such dynamics and to use it in research or industrial applications it is important to create its models For this purpose there is rich spectra of methods from classical like ARMA models or Box Jenkins method to such modern ones like evolutionary computation neural

networks fuzzy logic fractal geometry deterministic chaos and more This proceeding book is a collection of the accepted papers to conference Nostradamus that has been held in Ostrava Czech Republic Proceeding also comprises of outstanding keynote speeches by distinguished guest speakers Guanrong Chen Hong Kong Miguel A F Sanjuan Spain Gennady Leonov and Nikolay Kuznetsov Russia Petr koda Czech Republic The main aim of the conference is to create periodical possibility for students academics and researchers to exchange their ideas and novel methods This conference will establish forum for presentation and discussion of recent trends in the area of applications of various predictive methods for researchers students and academics

**CTET and TET Mathematics and Pedagogy for Class 1 to 5 for 2021 Exams** Arihant Experts,2021-03-25 1 The book Mathematics Mathematics and Pedagogy giving Chapterwise coverage to the syllabus 4 Previous Years Solved Papers and 5 Practice sets are designed exactly on the latest pattern of the examination 5 More than 1500 MCQs for thorough for practice 6 Useful for CTET UPTET HTET UTET CGTET and all other states TETs Robert Stenberg once said There is no Recipe to be a Great Teacher that s what is unique about them CTET provides you with an opportunity to make a mark as an educator while teaching in Central Government School Prepare yourself for the exam with current edition of Mathematics and Pedagogy Paper I that has been developed based on the prescribed syllabus of CTET and other State TETs related examination The book has been categorized under 2 Sections Mathematics Pedagogy giving clear understanding of the concepts in Chapterwise manner Each chapter is supplied with enough theories illustrations and examples With more than 1500 MCQs help candidates for the quick of the chapters Practice part has been equally paid attention by providing Previous Years Questions asked in CTET TET Practice Questions in every chapter along with the 5 Practice Sets exactly based on the latest pattern of the Examination Also Latest Solved Paper is given to know the exact Trend and Pattern of the paper Housed with ample number of questions for practice it gives robust study material useful for CTET UPTET HTET UTET CGTET and all other states TETs TOC Solved Paper I II 2021 January Solved Paper I 2019 December Solved Paper II 2019 December Solved Paper 2019 July Solved Paper 2018 December Mathematics Number System Fraction LCM and HCF Square Square Root and Cube Cube Root Unit Measurement and Mensuration Geometry Shapes Problem based on Arithmetic Data Handling Pedagogy Nature of Mathematics Mathematics in Curriculum Language of Mathematics Community Mathematics Evaluation Problems of Teaching Mathematics Error Analysis Diagnostic and Remedial Teaching Practice Sets 1 5

**The Politics of the Pantry** Michael Mikulak,2013-10-01 What s for dinner has always been a complicated question The locavore movement has politicized food and challenged us to rethink the answer in new and radical ways These days questions about where our food comes from have moved beyond 100 mile dieters into the mainstream Celebrity chefs Jamie Oliver and Alice Waters alternative food gurus such as Michael Pollan and numerous other popular and academic commentators have all talked about the importance of understanding the sources and transformation of food on a human scale In The Politics of the Pantry Michael Mikulak interrogates these narratives what he calls storied



food in food culture As with any story however it is important to ask who is telling it Who is the audience What assumptions are being made Mikulak examines competing narratives of food pleasure sustainability and value that have emerged from the growing sustainable food movement as well as food s past and present relationship to environmentalism in order to understand the potential and the limits of food politics He also considers whether or not sustainable food practices can address questions about health environmental sustainability and local economic development while at the same time articulating an ethical globalization An innovative blend of academic analysis poetic celebration and autobiography The Politics of the Pantry provides anyone interested in the future of food and the emergence of a green economy with a better understanding of how what we eat is transforming the world

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