

IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

Cambridge IGCSE™

Candidate
name

Candidate
number

Candidate
number

MATHEMATICS

Paper 2 (Extended)

0580/22

October/November 2022

1 hour 45 minutes

You must answer on the question paper.

For use with: Calculator (non-programmable)

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.

(b) Find the number of items in the box at time 5.

(c) Find the number of items in the box at time 10.

(d) Find the number of items in the box at time 15.

(e) Find the number of items in the box at time 20.

(f) Find the number of items in the box at time 25.

(g) Find the number of items in the box at time 30.

(h) Find the number of items in the box at time 35.

(i) Find the number of items in the box at time 40.

(j) Find the number of items in the box at time 45.

(k) Find the number of items in the box at time 50.

(l) Find the number of items in the box at time 55.

(m) Find the number of items in the box at time 60.

(n) Find the number of items in the box at time 65.

(o) Find the number of items in the box at time 70.

(p) Find the number of items in the box at time 75.

(q) Find the number of items in the box at time 80.

(r) Find the number of items in the box at time 85.

(s) Find the number of items in the box at time 90.

(t) Find the number of items in the box at time 95.

(u) Find the number of items in the box at time 100.

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

Number of items	Frequency
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10

Find the

mean of the

items in the

box.

Find the

standard deviation

of the items

in the box.

Find the

variance of the

items in the

box.

Find the

coefficient of

variation of the

items in the

box.

November 2012 42 Math

JL Elias



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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 **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 **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 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 Brahnam, 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

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