

# 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 30 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.

# Mathematics 0580 22

**Karen Morrison, Nick Hamshaw**



## Mathematics 0580 22:

*IGCSE Extended Mathematics 0580 Paper 4 - Exam Papers Fully Solved - 2018 Edition* Srinivas Chemboli, 2018-07-05  
This book contains methodical and fully solved step by step solutions for all variants of IGCSE Extended Mathematics 0580 Paper 4 for the year 2017 Neat and precise graphs are provided wherever required All intermediate steps in each calculation are written out for easy understanding of the problem solutions 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 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(TM) Mathematics Core and Extended Coursebook with Cambridge Online Mathematics (2 Years' Access)* Karen Morrison, Nick Hamshaw, 2023-05-04 This series supports teachers and learners of the Cambridge IGCSE Mathematics syllabuses 0580 0980 **Cambridge Igcse Mathematics 0580 Past Papers and Marking Scheme -22 Extended** B. S. A. I. Gopal SUNKARA, 2021-06-28 CAMBRIDGE IGCSE MATHEMATICS 0580 PAST PAPERS AND MARKING SCHEME PAPER 2 EXTENDED VARIANT 2 VERY USEFUL FOR O LEVEL STUDENTS OF ALL VARIANTS VERY HELPFUL TOOL FOR REVISION CONTAINS PAPERS FROM 2014 TO 2020 **Yesterday, Today & Tomorrow** Maryam Fadhel Abdulrazaq, 2016-05-06 A story about a 16 year old girl who has been bullied since the age of 6 and has been through many difficulties in her daily life and went through many ups and downs she fought for her success in life and proved to her parents and everyone around her that she can do it Sharing this experience with everyone through this book in order to help all of the teenagers of her age knowing that everything happens for a reason and everything has a solution No matter how much life brings her down and destroys her she still stands up on her feet Maybe every story has a happy ending but in this the ending is just the beginning *Quarterly Journal of Pure and Applied Mathematics* James Joseph Sylvester, James Whitbread Lee Glaisher, 1916 **The Quarterly Journal of Pure and Applied Mathematics**, 1916 *International General Secondary Mathematics 0580 IGCSE O levels* Lim, International General Secondary Mathematics 0580 IGCSE O levels This book is designed to serve as comprehensive model test papers to help students achieve the best result in O Levels

It is essential resource of test practice which will effectively help students to check their understanding of the subject and evaluate their performance It is hoped that this book will be every student s stepping stone to success This series consists of model test papers based on the latest O levels format This book contains 1000 questions of International General Secondary Mathematics 0580 IGCSE O levels Complete Answers IGCSE Secondary Mathematics O levels Resit Paper Cambridge IGCSE Pearson Edexcel *Industrial Motion Control* Dr. Hakan Gurocak,2016-03-14 Motion control is widely used in all types of industries including packaging assembly textile paper printing food processing wood products machinery electronics and semiconductor manufacturing Industrial motion control applications use specialized equipment and require system design and integration To design such systems engineers need to be familiar with industrial motion control products be able to bring together control theory kinematics dynamics electronics simulation programming and machine design apply interdisciplinary knowledge and deal with practical application issues The book is intended to be an introduction to the topic for senior level undergraduate mechanical and electrical engineering students It should also be resource for system design engineers mechanical engineers electrical engineers project managers industrial engineers manufacturing engineers product managers field engineers and programmers in industry Engineering Mathematics with Tables Miles Abdel Keasey,George Alfred Kline,David Allison McIlhatten,1923 *Textile Mathematics* Thomas Woodhouse,Alexander Brand,1921 *Handbook of Mathematics for Engineers and Engineering Students* Joseph Claudel,1906 **B22&42. Cambridge Igcse Mathematics [0580] Past Papers and Marking Scheme - Paper 22&42 - Extended** B. S. A. I. Gopal SUNKARA,2021-07-02 CAMBRIDGE IGCSE MATHEMATICS 0580 PAST PAPERS AND MARKING SCHEME PAPER 22 42 EXTENDED MAY JUNE VARIANT 2 VERY USEFUL FOR O LEVEL STUDENTS OF ALL VARIANTS VERY HELPFUL TOOL FOR REVISION CONTAINS PAPERS FROM 2015 TO 2021 MARCH 2021 ADDED *Scientific and Technical Aerospace Reports* ,1992 *Technical Abstract Bulletin* , *Tensor Products and Regularity Properties of Cuntz Semigroups* Ramon Antoine,Francesc Perera,Hannes Thiel,2018-02-23 The Cuntz semigroup of a algebra is an important invariant in the structure and classification theory of algebras It captures more information than theory but is often more delicate to handle The authors systematically study the lattice and category theoretic aspects of Cuntz semigroups Given a algebra its concrete Cuntz semigroup is an object in the category of abstract Cuntz semigroups as introduced by Coward Elliott and Ivanescu To clarify the distinction between concrete and abstract Cuntz semigroups the authors call the latter semigroups The authors establish the existence of tensor products in the category and study the basic properties of this construction They show that is a symmetric monoidal category and relate with for certain classes of algebras As a main tool for their approach the authors introduce the category of pre completed Cuntz semigroups They show that is a full reflective subcategory of One can then easily deduce properties of from respective properties of for example the existence of tensor products and inductive limits The advantage is that constructions in are much easier since the objects are purely algebraic *Shop Mathematics* John

Michael Christman,1922      Mathematics of Finance Lloyd Leroy Smail,1925      **Elementary Mathematics for Engineers**  
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