

# 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.

# Paper 22 October November 2013

**DP Hallahan**



## **Paper 22 October November 2013:**

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 **SSC CHSL (10+2) Solved Papers Combined Higher Secondary 2020** Arihant Experts, 2019-01-16 SSC Staff Selection Commission SSC has released the application form for Combined Higher Secondary Level CHSL It is a competitive examination for the recruitment of Lower Divisional Clerk Junior Secretariat Assistant Postal Assistant Sorting Assistant and Data Entry Operators for various Government of India Ministries Departments Offices The recruitment process for SSC CHSL consists of 3 phases which are tier 1 computer based exam tier 2 written exam and skill test as tier 3 The book on SSC CHSL Online Examination Solved Papers 2019 2019 has been revised consciously and carefully for the aspirants who are preparing for the posts of LDC DEO PSA With the help of this book aspirants can self analyze their preparation and can understand the types of various questions their weightage and the situation of questions quickly that have been asked in the exam Apart from Previous Years Solved Papers the book also provides 3 Practice Sets in the end in order to track their progress record Candidates can also avail the 3 Online Practice Sets for free with this book Packed with a perfect set of practice material it is a must have for anyone who wants to enhance their preparation TABLE OF CONTENTS Solved Papers 01 07 2019 Solved Paper 19 03 2018 Solved Paper 18 01 2017 SSC 10 2 Solved Papers 2015 2009 3 Practice Sets **SSC CHSL (10+2) Solved Papers Combined Higher Secondary 2021** Arihant Experts, 2021-12-21 1 The book is prepared for SSC CHSL 10 2 Tier 1 Online Examination 2 Previous Years Solved Papers 2020 2009 are given to know the paper pattern 3 3 Practice Sets are given for practice 4 3 Online Test papers are provided to give the exact feel of the examination The Staff Selection Commission SSC organizes number of examinations for eligible and potential candidates every year who wish to gain entry into prestigious Government Jobs at a young age To get recruited in different posts like Data Entry Operators Lower Divisional Clerk LDC Court Clerks etc of SSC CHSL here is the new updated edition of SSC CHSL 10 2 Tier 1 for Online Examination 2021 solved papers 2020 2009 proving to be one stop

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Security Social Media Valuable Tools in Today s Operational Environment Conflict Prediction Through Geo Spatial

Interpolation of Radicalization in Syrian Social Media **The Politics of Welfare State Transformation in Germany**  
Christof Schiller, 2016-04-20 How can we best analyse contemporary welfare state change And how can we explain and  
understand the politics of it This book contributes to these questions both empirically and theoretically by concentrating on  
one of the least likely cases for welfare state transformation in Europe It analyzes in detail how and why institutional change  
has taken Germany s welfare state from a conservative towards a new work first regime Christof Schiller introduces a novel  
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of the core executive over time Examining the policy making process in labour market policy in the period between 1980 and  
2010 he identifies three different policy making episodes and analyses their interaction with developments and changes in  
such policy areas as pension policy family policy labour law tax policy and social assistance The book advances existing  
efforts aimed at conceptualizing and measuring welfare state change by proposing a clear cut conceptualization of social  
policy regime change and introduces a comprehensive analysis of the transformation of the welfare work nexus between  
1980 and 2010 in Germany This book will be of interest to students and scholars of social policy comparative welfare state  
reform welfare politics government governance public policy German politics European politics political economy sociology  
and history The Trans Pacific Partnership, China and India Amitendu Palit, 2014-06-05 The United States and 11 other  
countries from both sides of the Pacific are currently negotiating the Trans Pacific Partnership TPP The agreement is  
expected to set new benchmark for international trade through its comprehensive coverage of issues and binding regulations

It is expected to eventually mature into a regional trade agreement covering the entire Asia Pacific As of now it does not include China and India the two largest emerging markets and regional economies The TPP has generated controversy for its excessive emphasis on trade issues which have remained unresolved or unaddressed at the WTO due to differences between developed and emerging markets It has also been criticized for adopting a negotiating style reflecting the US regulatory approach to international trade and also as a geo political strategy of the US for supporting its strategic rebalancing towards Asia From both economic and geo political perspectives the TPP has various significant implications for China and India that are examined in the book This book sheds light on how China and India s entries in the TPP are mutually beneficial and how both countries can gain from the TPP by gaining preferential access to large markets and using it as an opportunity for introducing more outward oriented reforms The book also cautions that US must reconcile to the rebalancing of economic power within the grouping that will occur following the entries of China and India Otherwise the TPP and China and India might walk divergent paths and trade and regional integration in Asia Pacific may not ever converge This book will interest anyone who wishes to learn more about the TPP and its future implications and challenges and China and India s roles in global and regional trade

**Water-supply Paper** ,1946

Geological Survey Water-supply Paper ,1950

Molecular mechanisms regulating cytotoxic lymphocyte development and function, and their associations to human diseases Konrad

Krzewski,Yenan Bryceson,2015-04-22 Nothing provided

**Triumph and Demise** Paul Kelly,2014-10-22 Featuring a new introduction in response to Julia Gillard s memoir this revised edition brings Paul Kelly s masterpiece on the Rudd Gillard

years up to the present Drawing on more than sixty on the record interviews with all the major players Triumph and Demise is full of remarkable disclosures It is the inside account of the hopes achievements and bitter failures of the Labor

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He tells the full story of Julia Gillard s tragedy as our first female prime minister her character Rudd s destabilisation the carbon tax saga and how Gillard was finally pulled down on the eve of the 2013 election Kelly documents the most

misunderstood event in these years the rise of Tony Abbott and the reason for his success It was Abbott s performance that denied Rudd and Gillard the chance to recover Labor misjudged Abbott and paid the price Kelly writes with a keen eye and fearless determination His central theme is that Australian politics has entered a crisis of the system that unless corrected will diminish the lives of all Australians *Assessing Maritime Power in the Asia-Pacific* Greg Kennedy,Harsh V.

Pant,2016-03-09 Leading academics from around the world who specialize in analysing maritime strategic issues deliberate the impact of the American pivot or re balance strategy and the Air Sea Battle operational concept on the maritime power and posture of a number of selected states Intending to strengthen US economic diplomatic and security engagement

throughout the Asia Pacific both bilaterally and multilaterally the re balance stands out as one of the Obama administration s most far sighted and ambitious foreign policy initiatives      The Right to Silence in Transnational Criminal Proceedings

Fenella M. W. Billing,2016-09-01 This book considers the effectiveness and fairness of using international cooperation to obtain confession evidence or evidence of a suspect or accused person s silence across borders This is a question of balance in limiting and protecting the right to silence The functioning of the applicable law in Denmark England and Wales and Australia is analysed in relation to investigative and trial measures such as police questioning administrative questioning powers covert surveillance and the use of silence as evidence of guilt On the national level this work examines the way in which domestic rules balance the right to silence in national criminal proceedings and whether investigative and trial rules produce continuity throughout the criminal proceedings as a whole From the transnational perspective comparative legal analysis is used to determine whether the national continuity may be disrupted to such an extent that cooperation in the gathering of confession evidence causes unfairness From the international perspective this research compares the right to silence under the ICCPR and the ECHR to identify the overall effect of cooperating under particular human rights frameworks on the question of balance      **The A-Z of Cambridge Igcse English Language** Akanksha Madan,2018-10-11

If you re tired of studying from vague textbooks and average online resources then this concise crisp guide to achieving excellence in Cambridge IGCSE First Language English is the answer to your problems This comprehensive guide includes Key foundation concepts for success Tasks to develop independent learning skills A step by step process to each exam component including the keys to success structure and phrases to use for Comprehension Task Persuasive Writing Letter Report Journal Speech Interview Newspaper Article Language Task Writer s Effect Summary and Note Making Argumentative and Discursive Writing Descriptive and Narrative Writing Over 20 sample answers This book won t just help you learn it will help you be the A student you ve been longing to be Akanksha s method is immaculate the resource is accessible to all levels and aptitudes of students Harsha Malaney Curriculum Consultant Billabong Schools This book is an invaluable cache of interesting observations It is an A effort by an A student with all the ingredients and simple tips to get an A Sanjoy Bhattacharjee Head of Faculty English Aditya Birla World Academy      China's Energy Security Giulia Romano,Jean-Francois Meglio,2016-06-10 A secure supply of energy is essential for all nations to sustain their economy and indeed their very survival This subject is especially important in the case of China as China s booming economy and consequent demand for energy is affecting the whole world and in turn potentially driving realignments in international relations Moreover as this book argues energy security should be considered more broadly to include issues of sustainability environmental protection and the domestic organisation of energy policy and energy supply This book presents a comprehensive picture of China s energy security It covers all energy sectors coal oil gas renewables international relations with all major sources of energy supply the Middle East Central Asia Africa and key areas of domestic policy making and

supply     European Welfare State Constitutions After the Financial Crisis Ulrich Becker, Anastasia Poulou, 2020 This book examines the specific reforms in social protection that took place during the European financial crisis while embedding them in a broader human rights and constitutional law framework of nine European countries Analytical and comprehensive this is a helpful tool for all legal professionals that deal with crisis related reforms



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