[Maximum mark: 17]

The Elite Traveller and Condé Nast Traveller are two magazines that review and rank the best restaurants in Paris. Based on different sets of criteria, scores out of 10 are assigned to 8 restaurants in Paris (labelled A to H). The raw data is collated in the following table:

Restaurants	A	B	C	D	E	F	G	H
Elite Traveller's score (x)	6.3	6.7	6.9	7.5	9.7	6.6	5.6	7.2
Condé Nast Traveller's score (y)	6.0	6.8	6.5	7.2	9.3	6.2	6.4	7.7
Elite Traveller's rank								
Condé Nast Traveller's rank								

(a) (i) Find the Pearson's product-moment correlation coefficient , r, for this data.

(ii) Using the value of r, interpret the relationship between the Elite Traveller's score and the Condé Nast Traveller' score. [4]

(b) Find the equation of the line of regression, y on x. [2]

(c) (i) Use your regression equation from **part (b)** to estimate the Condé Nast Traveller's score when the Elite Traveller awarded a perfect 10.

(ii) State whether this estimate is reliable. Justify your answer. [4]

(d) Complete the two empty rank rows in the table above. [4]

(e) (i) Find the value of the Spearman's rank correlation coefficient, r_s.

(ii) Comment on the result obtained for r_s. [4]

The Director of the Elite Traveller Magazine believes that the score for restaurant E was too high and decreased the score from 9.7 to 9.2.

(f) Explain why the value of the Spearman's rank correlation coefficient r_s does not change. [1]

Mark Scheme

(a) (i) $r \approx 0.961$ [by using G.D.C.]

(ii) Since the correlation coefficient is positive and close to 1, there is a very strong positive correlation between the Elite Traveller's score and Condé Nast Traveller' score.

(b) $y = 0.685x + 2.39$ [by using G.D.C.]

(c) (i) Substituting $x = 10$ into the equation of the regression line, we get

$$y = 0.685(10) + 2.39$$

$$\approx 9.23$$

(ii) This estimate is not reliable as $x = 10$ falls out of the data range [5.6, 9.7].

(d) Rearranging the scores of these restaurants in descending order, we obtain their ranks for each magazine in the following table:

Restaurants	A	B	C	D	E	F	G	H
Elite Traveller's rank	3	7	4	4	1	2	8	3
Condé Nast Traveller's rank	3	6.5	6.5	3	1	2	6	4

Ib Math Studies Past Paper 1

YCT Expert Team

Ib Math Studies Past Paper 1:

Algebraic and Geometric Topology, Part 1 R. James Milgram,American Mathematical Society,1978 Contains sections on Algebraic K and L theory Surgery and its applications Group actions   IB Math Studies Allison Paige Bruner,2014-08-01 The International Baccalaureate IB was founded in Geneva Switzerland in 1968 as a non profit educational foundation that endeavored to develop inquiring knowledgeable and caring young people who would go on to create a better and more peaceful world through intercultural understanding and respect What began as a single program for internationally mobile students preparing for college has grown into a series of programs for students up to age 19 Barron s is pleased to offer a brand new review guide for the IB Mathematics Studies exam The content of the book is based on the curriculum and covers all topics required for exams beginning in 2014 It includes An overview of the exam including an explanation of scoring Thorough review and explanation for all curriculum subjects Extensive review and practice for each topic including Paper 1 and Paper 2examples Three full length paper 1 and 2 practice exams with solutions and comprehensive explanations Calculator instructions for the TI 84 and TI Nspire This all encompassing book also serves as a valuable resource during first year college math courses   IB World Schools Yearbook 2011 Wendy Bosberry-Scott,2011 This yearbook is the official guide to schools offering the International Baccalaureate Diploma Middle Years and Primary Years programmes It tells you where the schools are and what they offer and provides up to date information about the IB programmes and the International Baccalaureate Organization   2024-25 NTA UGC-NET/JRF Teaching & Research Aptitude Solved Papers YCT Expert Team , 2024 25 NTA UGC NET JRF Teaching Research Aptitude Solved Papers   *Handbook of Research on K-12 Blended and Virtual Learning Through the i²Flex Classroom Model* Avgerinou, Maria D.,Pelonis, Peggy,2021-03-05 Teaching models that focus on blended and virtual learning have become important during the past year and have become integral for the continuance of learning The i Flex classroom model a variation of blended learning allows non interactive teaching activities to take place without teachers direct involvement freeing up time for more meaningful teacher student and student student interactions There is evidence that i Flex leads to increased student engagement and motivation as well as better exploitation of teachers and classroom time leading to the development of higher order cognitive skills as well as study skills for students future needs related to citizenship college and careers The Handbook of Research on K 12 Blended and Virtual Learning Through the i Flex Classroom Model focuses not only on how to design deliver and evaluate courses but also on how to assess teacher performance in a blended i2Flex way at the K12 level The book will discuss the implementation of the i Flex isquareFlex a non traditional learning methodology which integrates internet based delivery of content and instruction with faculty guided student independent learning in combination with face to face classroom instruction aiming at developing higher order cognitive skills within a flexible learning design framework While highlighting new methods for improving the classroom and learning experience in addition to preparing students for higher education and careers this publication is an

essential reference source for pre service and in service teachers researchers administrators educational technology developers and students interested in how the i2Flex model was implemented in classrooms and the effects of this learning model   *Issues in K-12 Education* CQ Researcher,2009-11-02 Issues in K 12 Education is a contemporary collection of articles covering core issues within the broad topic of K 12 Education The book is intended to supplement core courses in the Education curriculum titled Foundations of Education Introduction to Teaching Introduction to Education and Issues in Education among other similarly titled courses The book progresses through a 3 part structure of topics generally covered in Foundations or Introduction to Education courses and texts Issues in Justice Equity and Equality Issues in Teaching and Learning and Issues in School Environment In total we will have 19 articles   **(Free version) Abacus & Mental Arithmetic Course Book** Mathewmatician, All four arithmetic examples and exercises are provided with detailed and smooth versions of video teaching It is suitable to Children with strong self learning ability Parents who train their children on their own Kindergarten or Primary school teacher Students majoring in early childhood education or elementary education in universities and colleges Those who are interested in becoming an abacus and mental arithmetic teacher or are interested in running an abacus and mental arithmetic class   *Advances in Theory and Practice of Computational Mechanics* Margarita N. Favorskaya,Ilia S. Nikitin,Natalia S. Severina,2022-03-30 This book is a collection of peer reviewed best selected research papers presented at 22nd International Conference on Computational Mechanics and Modern Applied Software Systems CMMASS 2021 held at the Alushta Health and Educational Center The Republic of Crimea during 4 13 September 2021 The proceedings is dedicated to solving the real world problems of applied mechanics using smart computational technology Physical and mathematical models numerical methods computational algorithms and software complexes are discussed which allow to carry out high precision mathematical modelling in fluid gas and plasma mechanics in general mechanics deformable solid mechanics in strength destruction and safety of structures etc Smart technologies and software systems that provide effective solutions to the problems at various multi scale levels are considered Special attention is paid to the training of highly qualified specialists for the aviation and space industry   **Resources in Education** ,2001   Education for Competitive America Act United States. Congress. Senate. Committee on Labor and Human Resources. Subcommittee on Education, Arts, and Humanities,1987   **Handbook of Discrete and Computational Geometry** Csaba D. Toth,Joseph O'Rourke,Jacob E. Goodman,2017-11-22 The Handbook of Discrete and Computational Geometry is intended as a reference book fully accessible to nonspecialists as well as specialists covering all major aspects of both fields The book offers the most important results and methods in discrete and computational geometry to those who use them in their work both in the academic world as researchers in mathematics and computer science and in the professional world as practitioners in fields as diverse as operations research molecular biology and robotics Discrete geometry has contributed significantly to the growth of discrete mathematics in recent years This has been fueled partly by

the advent of powerful computers and by the recent explosion of activity in the relatively young field of computational geometry This synthesis between discrete and computational geometry lies at the heart of this Handbook A growing list of application fields includes combinatorial optimization computer aided design computer graphics crystallography data analysis error correcting codes geographic information systems motion planning operations research pattern recognition robotics solid modeling and tomography   Proceedings of the St. Petersburg Mathematical Society Volume III Ol_ga Aleksandrovna Ladyzhenskai_a,1995-06-20 Books in this series highlight some of the most interesting works presented at symposia sponsored by the St Petersburg Mathematical Society Aimed at researchers in number theory field theory and algebraic geometry the present volume deals primarily with aspects of the theory of higher local fields and other types of complete discretely valued fields Most of the papers require background in local class field theory and algebraic K theory however two of them Unit Fractions and Collections of Multiple Sums would be accessible to undergraduates

Proceedings of the Royal Irish Academy ,1985   Journal of Research of the National Bureau of Standards United States. National Bureau of Standards,1974   **Subject Catalog, 1976** Library of Congress,1976   **Journal of Research** United States. National Bureau of Standards,1961   *Some Musings on Theta, Eta, and Zeta* Floyd L. Williams,2023-11-02 This book continues the applications of mathematics more specifically of theta eta and zeta functions and modular forms to various areas of theoretical physics It is a follow up and extension in some sense of the author s earlier book entitled A window into zeta and modular physics Some of the main topics are 1 A new approach to logarithmic corrections to black hole entropy 2 My recent work that provides for an explicit cold plasma black hole connection 3 Generalization of work of physicists on certain asymptotic problems relating to string theory for example by way of the general theory of modular forms of non positive weight 4 A construction of the E8 root lattice its theta function and its relevance for heterotic string theory 5 Applications of elliptic functions to KdV nonlinear Schr dinger and Duffing equations for example including a discussion of Lax pairs and the Miura transformation 6 Finite temperature zeta functions and partition functions for quantum fields in thermal equilibrium on various curved background spacetimes 7 Exact solutions of the Einstein gravitational field equations for Lemaitre and inhomogeneous cosmological models with a special focus on the Szekeres Szafron exact solutions by way of the Weierstrass elliptic function 8 Elementary particles and my zeta function formula for higher spin fermionic particles this covers in particular the gravitino particle of spin 3 2 and bosons with integral spin s 2 3 4 5 These are some sample topics Others include the continuous Heisenberg model reaction diffusion systems Dirichlet and Hecke L functions the modular j invariant the computation of the one loop effective potential for non compact symmetric spaces the BTZ black hole Jacobi inversion formulas etc Thus there is a very large range of material with the first 9 chapters of preliminary expositional background for mathematicians and physicists   **Granular, Fuzzy, and Soft Computing** Tsau-Young Lin,Churn-Jung Liau,Janusz Kacprzyk,2023-03-29 The first edition of the Encyclopedia of Complexity and Systems Science

ECSS 2009 presented a comprehensive overview of granular computing GrC broadly divided into several categories Granular computing from rough set theory Granular Computing in Database Theory Granular Computing in Social Networks Granular Computing and Fuzzy Set Theory Grid Cloud Computing as well as general issues in granular computing In 2011 the formal theory of GrC was established providing an adequate infrastructure to support revolutionary new approaches to computer data science including the challenges presented by so called big data For this volume of ECSS Second Edition many entries have been updated to capture these new developments together with new chapters on such topics as data clustering outliers in data mining qualitative fuzzy sets and information flow analysis for security applications Granulations can be seen as a natural and ancient methodology deeply rooted in the human mind Many daily things are routinely granulated into sub things The topography of earth is granulated into hills plateaus etc space and time are granulated into infinitesimal granules and a circle is granulated into polygons of infinitesimal sides Such granules led to the invention of calculus topology and non standard analysis Formalization of general granulation was difficult but as shown in this volume great progress has been made in combing discrete and continuous mathematics under one roof for a broad range of applications in data science

Journal of Research of the National Bureau of Standards ,1965 *Studies in the Word Formation of the Latin Inscriptions, Substantives and Adjectives* George N. Olcott,1898

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