

(Maximum mark: 17)



The Elite Traveller and Conde 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)	8.1	6.7	6.9	7.5	9.7	8.8	5.6	7.2
Conde Nast Traveller's score (y)	8.8	6.9	6.9	7.2	9.3	6.2	6.4	7.7
Elite Traveller's rank								
Conde 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 Conde Nast Traveller's 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 Conde 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. [2]

(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 Conde Nast Traveller's score.

(b) $y = 0.685x + 2.38$ [by using G.D.C.]

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

$$y = 0.685(10) + 2.38$$

$$\approx 9.23$$

(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	6	4	1	2	8	5
Conde Nast Traveller's rank	1	6.5	6.5	3	1	2	8	4

Ib Math Studies Paper 2 2013

**Bahar Acu, Donatella Danielli, Marta
Lewicka, Arati Pati, Saraswathy
RV, Miranda Teboh-Ewungkem**

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Telecommunication Network Economics Patrick Maillé,Bruno Tuffin,2014-02-27 An up to date guide to the economic issues in telecommunications delivering a comprehensive overview from mathematical models to

practical applications Covering hot topics such as app stores auctions for advertisements search engine business models network neutrality and virtual network operators this resource is ideal for graduate students researchers and industry practitioners

The Highly Effective Teacher Jeff C. Marshall, 2016-04-14 What are the secrets to unlocking student success And what can teachers do to get better at helping students develop deep understanding of content attain higher order thinking skills and become secure confident and capable learners In this book teacher and professor Jeff Marshall showcases how teaching with intentionality answers these questions Specifically he introduces the Teacher Intentionality Practice Scale TIPS a framework for both supporting and measuring effective teaching Taken together the framework's seven TIPs provide a research based classroom tested guide to help teachers create coherent connected lessons use strategies and resources including technology that truly enhance learning organize a safe respectful learning environment develop challenging and rigorous learning experiences promote interactive thoughtful learning nurture a creative problem solving classroom culture and deliver feedback and formative assessment that inform teaching and learning Marshall's needs assessment instrument can help teachers working independently or in a cohort determine the best starting point for improving their practice Practical straightforward rubrics for each TIP describe the various levels of teacher proficiency Based on his own teaching experience and observations in hundreds of classrooms Marshall also offers action tips for each framework component and a list of resources for further study Written for teachers and leaders at all levels and in all content areas *The Highly Effective Teacher* is a guidebook for thoughtful intentional teaching with one goal success for all students in every classroom

The Undercover Economist Strikes Back Tim Harford, 2015-01-06 A provocative and lively exploration of the increasingly important world of macroeconomics by the author of the bestselling *The Undercover Economist* Thanks to the worldwide financial upheaval economics is no longer a topic we can ignore From politicians to hedge fund managers to middle class IRA holders everyone must pay attention to how and why the global economy works the way it does Enter Financial Times columnist and bestselling author Tim Harford In this new book that demystifies macroeconomics Harford strips away the spin the hype and the jargon to reveal the truth about how the world's economy actually works With the wit of a raconteur and the clear grasp of an expert Harford explains what's really happening beyond today's headlines why all of us should care and what we can do about it to understand it better

Neutrosophic Operational Research Florentin Smarandache, Mohamed Abdel-Basset, 2021-09-09 This book addresses new concepts methods algorithms modeling and applications of green supply chain inventory control problems assignment problems transportation problem linear problems and new information related to optimization for the topic from the theoretical and applied viewpoints of neutrosophic sets and logic The book is an innovatory of new tools and procedures such as Neutrosophic Statistical Tests and Dependent State Samplings Neutrosophic Probabilistic Expert Systems Neutrosophic HyperSoft Set Quadripartitioned Neutrosophic Cross Entropy Octagonal and Spherical and Cubic Neutrosophic Numbers used in machine learning It highlights the process of

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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

Tools for Teaching Conceptual Understanding, Secondary Julie Stern, Krista Ferraro, Juliet Mohnkern, 2017-02-02 Students become experts and innovators through Concept Based teaching Innovators don't invent without a deep understanding of how the world works With this foundation they apply conceptual understanding to solve new problems We want our students to not only retain ideas but relate them to other things they encounter using each new situation to add nuance and sophistication to their thinking To do this they need conceptual understanding This book serves as a road map for Concept Based teaching Discover how to help students uncover conceptual relationships and transfer them to new situations Specifically teachers will learn Strategies for introducing conceptual learning to students Four lesson frameworks to help students uncover conceptual relationships How to assess conceptual understanding and How to differentiate concept based instruction Look no further For deep learning and innovative thinking this book is the place to start The authors tear down the false dichotomies of traditional vs innovative education and provide a practical toolkit for developing creativity and applying knowledge through Concept Based learning Every practitioner needs this book to juxtapose what worked well in the 20th Century with what is essential in the 21st Century and beyond Michael McDowell Superintendent Ross School District Ross CA While most good educators recognise the incredible value of teaching conceptually it is challenging The authors have created accessible practical baby steps for every teacher to use Dr Vincent Chan principal Fairview International School Kuala Lumpur Malaysia **IJER Vol 25-N3** International Journal of Educational Reform, 2016-12-20 The mission of the International Journal of Educational Reform IJER

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Advances in Mathematical Sciences Bahar Acu,Donatella Danielli,Marta Lewicka,Arati Pati,Saraswathy RV,Miranda Teboh-Ewungkem,2020-07-16 This volume highlights the mathematical research presented at the 2019 Association for Women in Mathematics AWM Research Symposium held at Rice University April 6 7 2019 The symposium showcased research from women across the mathematical sciences working in academia government and industry as well as featured women across the career spectrum undergraduates graduate students postdocs and professionals The book is divided into eight parts opening with a plenary talk and followed by a combination of research paper contributions and survey papers in the different areas of mathematics represented at the symposium algebraic combinatorics and graph theory algebraic biology commutative algebra analysis probability and PDEs topology applied mathematics mathematics education

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

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Supercomputing Vladimir Voevodin,Sergey Sobolev,2020-12-05 This book constitutes the refereed post conference proceedings of the 6th Russian Supercomputing Days RuSCDays 2020 held in Moscow Russia in September 2020 The 51 revised full and 4 revised short papers presented were carefully reviewed and selected from 106 submissions The papers are organized in the following topical sections parallel algorithms supercomputer simulation HPC BigData AI architectures technologies tools and distributed and cloud computing The conference was held virtually due to the COVID 19 pandemic

Free And Interacting Quantum Fields Ioan Merches,Daniel Radu,Dorian Tatomir,2017-10-25 Modern physics is characterized by two great theories which make it fundamentally different from its predecessor quantum theory and theory of relativity In this book we want to bring to the reader s attention several solutions to problems connected to the quantum relativistic interaction of particles Remarkably such solutions furnished rigorous and pertinent explanations of a large set of phenomena both in microscopic world and galactic universe

Formal Grammar Annie Foret,Glyn Morrill,Reinhard Muskens,Rainer Osswald,Sylvain Pogodalla,2016-08-05 This book constitutes the refereed proceedings of the 20th and 21st International Conference on Formal Grammar 2015 and 2016 collocated with the European Summer School in Logic Language and Information in August 2015 2016 The 19 revised full papers presented together with 2 invited talks were carefully reviewed and selected from a total of 34 submissions The focus of papers are as follows Formal and computational phonology morphology syntax semantics and pragmatics Model theoretic and proof theoretic methods in linguistics Logical aspects of linguistic structure Constraint based and resource sensitive approaches to grammar Learnability of formal grammar Integration of stochastic and symbolic models of grammar Foundational methodological and architectural issues in grammar and linguistics Mathematical foundations of statistical approaches to linguistic analysis

The Philosophy of Historical Case Studies Tilman Sauer,Raphael Scholl,2016-05-24 This volume collects reflections on the role of philosophy in case studies in the history of science Case studies have played a prominent role in recent history and philosophy of science They have been used to illustrate question explore or explicate philosophical points of view Even if not explicitly so historical narratives are always guided by philosophical background assumptions But what happens if different philosophies lead to

different narratives of the same historical episodes Can historical case studies decide between competing philosophical viewpoints What are the criteria that a case study has to fulfill in order to be philosophically relevant Bringing together leading practitioners in the fields of history and philosophy of the physical and the life sciences this volume addresses this methodological problem and proposes ways of rendering explicit philosophical assumptions of historical work

Introduction to Lie Algebras J. I. Hall, 2025-01-21 Being both a beautiful theory and a valuable tool Lie algebras form a very important area of mathematics This modern introduction targets entry level graduate students It might also be of interest to those wanting to refresh their knowledge of the area and be introduced to newer material Infinite dimensional algebras are treated extensively along with the finite dimensional ones After some motivation the text gives a detailed and concise treatment of the Killing Cartan classification of finite dimensional semisimple algebras over algebraically closed fields of characteristic 0 Important constructions such as Chevalley bases follow The second half of the book serves as a broad introduction to algebras of arbitrary dimension including Kac Moody KM loop and affine KM algebras Finite dimensional semisimple algebras are viewed as KM algebras of finite dimension their representation and character theory developed in terms of integrable representations The text also covers triangular decomposition after Moody and Pianzola and the BGG category \mathcal{O} A lengthy chapter discusses the Virasoro algebra and its representations Several applications to physics are touched on via differential equations Lie groups superalgebras and vertex operator algebras Each chapter concludes with a problem section and a section on context and history There is an extensive bibliography and appendices present some algebraic results used in the book

Rough Sets Andrea Campagner, Oliver Urs Lenz, Shuyin Xia, Dominik Ślęzak, Jarosław Wąs, JingTao Yao, 2023-12-30 This book constitutes the refereed proceedings of the International Joint Conference on Rough Sets IJCRS 2023 held in Krakow Poland during October 5 8 2023 The 43 full papers included in this book were carefully reviewed and selected from 83 submissions They were organized in topical sections as follows Rough Set Models Foundations Three way Decisions Granular Models Distances and Similarities Hybrid Approaches Applications Cybersecurity and IoT

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