

(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
<i>Elite Traveller</i> 's score (x)	8.1	6.7	6.9	7.5	9.7	8.8	5.6	7.2
<i>Condé Nast Traveller</i> 's score (y)	8.8	6.9	6.9	7.2	9.3	6.2	6.4	7.7
<i>Elite Traveller</i> 's rank								
<i>Condé Nast Traveller</i> '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. [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) $r = 0.961$ [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) $y = 0.685x + 2.38$ [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
<i>Elite Traveller</i> 's rank	3	7	6	4	1	2	8	5
<i>Condé Nast Traveller</i> 's rank	1	6.5	6.5	3	1	2	8	4

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Committee on Homeland Security and
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colleagues animating research studies with a broad range of young people and young adults navigating the uneven landscapes of education in urban America Book Features Details linked to research methodologies including multi site longitudinal ethnography and longitudinal ethnographic interviews as well as participatory action research that the authors among others have advanced in critical educational studies Provides examples of educational research that interrogate inequities and document radical possibilities by race class gender immigration status and sexuality Examines projects that have been designed alongside and by vibrant research teams from across schools prisons youth movements and public and private educational P 16 plus settings Interrogates how the authors evolved innovative research methods and ethics attentive to studying up mapping national youth led surveys participatory inquiry behind bars and with middle school students Offers educational designs that address inequities in STEM education and outcomes and the impact of state violence on young people as well as methods for understanding structural arrangements youth identities and on the ground research for justice

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

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

Border Security, 2015 United States. Congress. Senate. Committee on Homeland Security and Governmental Affairs, 2016

Mathematics for the IB MYP 4 & 5 Rita Bateson, 2017-05-30 Exam Board IB Level MYP Subject Mathematics First Teaching September 2016 First Exam June 2017 The only series for MYP 4 and 5 developed in cooperation with the International Baccalaureate IB Develop your skills to become an inquiring learner ensure you navigate the MYP framework with confidence using a concept driven and assessment focused approach to Mathematics presented in global contexts Develop conceptual understanding with key MYP concepts and related concepts at the heart of each chapter Learn by asking questions with a statement of inquiry in each chapter Prepare for every aspect of assessment using support and tasks designed by experienced educators Understand how to extend your learning through research projects and interdisciplinary opportunities Feel confident that you cover the whole framework with standard and extended mathematics included and Extended clearly signposted This title is also available in two digital formats via Dynamic Learning Find out more by clicking on the links at the top of the page A proof of the first 6 Chapters of the book is now available as an eInspection copy by

clicking the eInspection copy button to the left Rita Bateson was until very recently the Curriculum Manager for MYP Mathematics and Sciences at the International Baccalaureate IB and continues to be involved in curriculum review She is an experienced teacher of MYP and DP Mathematics and Sciences and is Head of Mathematics in her current school She has taught in many international schools in Europe as well as North America Her interest include overcoming mathematics anxiety in pupils and STEM education She is also the co author of MYP by Concept 1 3 Mathematics with Irina Amlin

Analyzing and Interpreting Qualitative Research Charles Vanover,Paul Mihas,Johnny Saldana,2021-04-14 This text provides comprehensive coverage of the key methods for analyzing interpreting and writing up qualitative research in a single volume and drawing on the expertise of major names in the field Covering all the steps in the process of analyzing interpreting and presenting findings in qualitative research the authors utilize a consistent chapter structure that provides novice and seasoned researchers with pragmatic how to strategies Each chapter introduces the method uses one of the authors own research projects as a case study of the method described shows how the specific analytic method can be used in other types of studies and concludes with questions and activities to prompt class discussion or personal study **New**

Results in Numerical and Experimental Fluid Mechanics XI Andreas Dillmann,Gerd Heller,Ewald Krämer,Claus Wagner,Stephan Bansmer,Rolf Radespiel,Richard Semaan,2017-10-29 This book gathers contributions to the 20th biannual symposium of the German Aerospace Aerodynamics Association STAB and the German Society for Aeronautics and Astronautics DGLR The individual chapters reflect ongoing research conducted by the STAB members in the field of numerical and experimental fluid mechanics and aerodynamics mainly for but not limited to aerospace applications and cover both nationally and EC funded projects Special emphasis is given to collaborative research projects conducted by German scientists and engineers from universities research establishments and industries By addressing a number of cutting edge applications together with the relevant physical and mathematics fundamentals the book provides readers with a comprehensive overview of the current research work in the field Though the book s primary emphasis is on the aerospace context it also addresses further important applications e g in ground transportation and energy *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 neutrosification which means to split the universe into three parts two opposite ones Truth and Falsehood and an Indeterminate or neutral one I in between them It explains Three Ways Decision

how the universe set is split into three different distinct areas in regard to the decision process representing Acceptance Noncommitment and Rejection respectively The Three Way Decision is used in the Neutrosophic Linguistic Rough Set which has never been done before

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

Collected Papers. Volume VII Florentin Smarandache, 2022-02-01 This seventh volume of Collected Papers includes 70 papers comprising 974 pages on theoretic and applied neutrosophics written between 2013 2021 by the author alone or in collaboration with the following 122 co authors from 22 countries Mohamed Abdel Basset Abdel Nasser Hussian C Alexander Mumtaz Ali Yaman Akbulut Amir Abdullah Amira S Ashour Assia Bakali Kousik Bhattacharya Kainat Bibi R N Boyd mit Budak Lulu Cai Cenap zel Chang Su Kim Victor Christianto Chunlai Du Chunxin Bo Rituparna Chutia Cu Nguyen Giap Dao The Son Vinayak Devvrat Arindam Dey Partha Pratim Dey Fahad Alsharari Feng Yongfei S Ganesan Shivam Ghildiyal Bibhas C Giri Masooma Raza Hashmi Ahmed Refaat Hawas Hoang Viet Long Le Hoang Son Hongbo Wang Hongnian Yu Mihaiela Iliescu Saeid Jafari Temitope Gbolahan Jaiyeola Naeem Jan R Jeevitha Jun Ye Anup Khan Madad Khan Salma Khan Ilanthenral Kandasamy W B Vasantha Kandasamy Darjan Karaba evi Kifayat Ullah Kishore Kumar P K Sujit Kumar De Prasun Kumar Nayak Malayalan Lathamaheswari Luong Thi Hong Lan Anam Luqman Luu Quoc Dat Tahir Mahmood Hafsa M Malik Nivetha Martin Mai Mohamed Parimala Mani Mingcong Deng Mohammed A Al Shumrani Mohammad Hamidi Mohamed Talea Kalyan Mondal Muhammad Akram Muhammad Gulistan Farshid Mofidnakhaei Muhammad Shoaib Muhammad Riaz Karthika Muthusamy Nabeela Ishfaq Deivanayagampillai Nagarajan Sumera Naz Nguyen Dinh Hoa Nguyen Tho Thong Nguyen Xuan Thao Noor ul Amin Dragan Pamur Gabrijela Popovi S Krishna Prabha Surapati Pramanik Priya R Qiaoyan Li Yaser Saber Said Broumi Saima Anis Saleem Abdullah Ganeshsree Selvachandran Abdulkadir Seng r Seyed Ahmad Edalatpanah Shahbaz Ali Shahzaib Ashraf Shouzhen Zeng Shio Gai Quek Shuangwu Zhu Shumaiza Sidra Sayed Sohail Iqbal Songtao Shao Sundas Shahzadi Dragi a Stanujki eljko Stevi Udhayakumar Ramalingam Zunaira Rashid Hossein Rashmanlou Rajkumar Verma Luige Vl d reanu Victor Vl d reanu Desmond Jun Yi Tey Sel uk Topal Naveed Yaqoob Yanhui Guo Yee Fei Gan Yingcang Ma Young Bae Jun Yuping Lai Hafiz Abdul Wahab Wei Yang Xiaohong Zhang Edmundas Kazimieras Zavadskas Lemnaouar Zedam

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 **2016 MATRIX Annals** Jan de Gier,Cheryl E.

Praeger,Terence Tao,2018-04-10 MATRIX is Australia s international residential mathematical research institute It facilitates new collaborations and mathematical advances through intensive residential research programs each lasting 1 4 weeks This book is a scientific record of the five programs held at MATRIX in its first year 2016 Higher Structures in Geometry and Physics Winter of Disconnectedness Approximation and Optimisation Refining C Algebraic Invariants for Dynamics using KK theory Interactions between Topological Recursion Modularity Quantum Invariants and Low dimensional Topology The MATRIX Scientific Committee selected these programs based on their scientific excellence and the participation rate of high profile international participants Each program included ample unstructured time to encourage collaborative research some of the longer programs also included an embedded conference or lecture series The articles are grouped into peer reviewed contributions and other contributions The peer reviewed articles present original results or reviews on selected topics related to the MATRIX program the remaining contributions are predominantly lecture notes based on talks or activities at MATRIX 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 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 *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 *Energy Research Abstracts* ,1983

Ib Math Studies Paper 2013 Book Review: Unveiling the Power of Words

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