

(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	6.8	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) $r = 0.961$ [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

AW Chickering



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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

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

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

Backpacker, 2001-03 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world's first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker's Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured

Ergonomic Workplace Design for Health, Wellness, and Productivity Alan Hedge, 2016-08-05 Even with today's mobile technology most work is still undertaken in a physical workplace Today's workplaces need to be healthy environments that minimize the risks of illnesses or injuries to occupants to compete in the marketplace This necessitates the application of good ergonomics design principles to the creation of effective workplaces and this is the focus of this book This book will Focus on ergonomic design for better health and ergonomic design for better productivity Presents environments that support new ways of working and alternative workplace strategies as well as the impacts of new technologies Covers the role of ergonomics design in creating sustainable workplaces Includes ergonomics design for a wide variety of workplaces from offices to hospitals to hotels to vehicles etc Shows the design principles on how to design and create a healthy and productive workplace The market lacks an ergonomics design book that covers the topics that this book will cover This book summarizes design principles for practitioners and applies them to the variety of workplace settings described in the book No other book currently on the market does that

Yearbook of International Organizations 2013-2014 (Volume 3) Union Of International Associations, Union of International Associations, 2013-08-09 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non

governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 3 allows readers to locate organizations by subjects or by fields of activity and specialization and includes an index to Volumes 1 through 3 *Building a Curious School* Bryan Goodwin, 2020-03-19

Unleash the power of curiosity and the joy of learning Curiosity is hardwired in all of us but the longer students stay in school the less curious they become Why is that *Building a Curious School* uncovers the many subtle ways in which formal education seems to hinder our natural curiosity and reveals how rekindling a sense of wonder in schools can prime the pump for learning foster a culture of engagement grow better educational leaders and prepare students and staff to lead more fulfilling lives Grounded in research this engaging examination of curiosity shows educators how to intentionally cultivate inquisitiveness and wonder in teaching and learning It includes A plethora of activities ideas and tips to encourage curiosity Compelling examples of curiosity at work in schools businesses and communities Tools for supporting curiosity in ways that spark meaningful conversations and promote empathy equity and social emotional learning If you've ever wondered anything really just out of curiosity then you've got what it takes to lead your school to restored curiosity and your students to wellbeing and success This book lays out a vision as to the way schools can and should be approached to stimulate curiosity as a natural part of the teaching learning process Robert J Marzano Cofounder and CAO Marzano Resources Cofounder and Strategic Advisor Marzano Research A powerful must read for all educators who want learning not only to be lively but also impactful and meaningful for every student Lyn Sharratt Internship Supervisor Ontario Institute for Studies in Education University of Toronto Canada *Partition Functions and Automorphic Forms* Valery A. Gritsenko, Vyacheslav P. Spiridonov, 2020-07-09

This book offers an introduction to the research in several recently discovered and actively developing mathematical and mathematical physics areas It focuses on 1 Feynman integrals and modular functions 2 hyperbolic and Lorentzian Kac Moody algebras related automorphic forms and applications to quantum gravity 3 superconformal indices and elliptic hypergeometric integrals related instanton partition functions 4 moonshine its arithmetic aspects Jacobi forms elliptic genus and string theory and 5 theory and applications of the elliptic Painleve equation and aspects of Painleve equations in quantum field theories All the topics covered are related to various partition functions emerging in different supersymmetric and ordinary quantum field theories in curved space times of different $d = 2, 3, 6$ dimensions Presenting multidisciplinary methods localization Borcherds products theory of special functions Cremona maps etc for treating a range of partition functions the book is intended for graduate students and young postdocs interested in the interaction between quantum field theory and mathematics related to automorphic forms representation theory number theory and geometry and mirror symmetry **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

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