

(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 ( $x$ )	8.1	6.7	6.9	7.5	9.7	8.8	5.6	7.2
Condé Nast Traveller's score ( $y$ )	8.0	6.8	6.9	7.2	9.1	8.2	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'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 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)  $r \approx 0.961$  [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'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
Condé Nast Traveller's rank	3	6.5	6.5	3	1	2	8	4

# Ib Maths Studies 2013 Past Paper

**Emily Thomas**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Ib Maths Studies 2013 Past Paper:**

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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

*Ebook: Life-Span Development* Santrock, 2016-09-16 Ebook Life Span Development      **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      *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      Rebellion, Rascals, and Revenue Michael Keen, Joel Slemrod, 2022-05-17 An engaging and enlightening account of taxation told through lively dramatic and sometimes ludicrous stories drawn from around the world and across the ages Governments have always struggled to tax in ways that are effective and tolerably fair Sometimes they fail grotesquely as

when in 1898 the British ignited a rebellion in Sierra Leone by imposing a tax on huts and in repressing it ended up burning the very huts they intended to tax Sometimes they succeed astonishingly as when in eighteenth century Britain a cut in the tax on tea massively increased revenue In this entertaining book two leading authorities on taxation Michael Keen and Joel Slemrod provide a fascinating and informative tour through these and many other episodes in tax history both preposterous and dramatic from the plundering described by Herodotus and an Incan tax payable in lice to the misremembered Boston Tea Party and the scandals of the Panama Papers Along the way readers meet a colorful cast of tax rascals and even a few tax heroes While it is hard to fathom the inspiration behind such taxes as one on ships that tended to make them sink Keen and Slemrod show that yesterday s tax systems have more in common with ours than we may think Georgian England s window tax now seems quaint but was an ingenious way of judging wealth unobtrusively And Tsar Peter the Great s tax on beards aimed to induce the nobility to shave much like today s carbon taxes aim to slow global warming Rebellion Rascals and Revenue is a surprising and one of a kind account of how history illuminates the perennial challenges and timeless principles of taxation and how the past holds clues to solving the tax problems of today **Credential Market** Quentin

Maire,2021-09-22 This book makes an original contribution to credential sociology by analysing how high school certificates become and remain valuable in a context of mass high school participation i e credentialism Building on a detailed analysis of the International Baccalaureate IB Diploma a senior secondary school certificate offered in over 150 countries Quentin Maire argues that the advent of new private credentials can be understood as a phenomenon of credential stratification in a context of intensified academic competition Using original data on high school credentials in Australia and internationally the author makes a strong case for certificates to be studied relationally by locating them in the credentialing structures in which they are inserted He systematically applies the comparative method to explain the role of the curriculum family resources school segregation and higher education selection in creating a credential hierarchy His robust combination of theoretical construction and detailed empirical work allows him to offer new insights into social inequality in education systems credential theory and the IB Diploma **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 **The Small Finds and Vessel Glass from Insula VI.1 Pompeii: Excavations 1995-2006** H.E.M. Cool,2016-11-07 This report presents the vessel glass and small finds found during the excavations between 1995 and 2006 that took place in Insula VI 1 Pompeii henceforth VI 1 More than 5 000 items are discussed and the size of the assemblage has meant that the publication is in two parts

**Sociology** David M. Newman,2020-01-28 In Sociology Exploring the Architecture of Everyday Life David Newman shows your students how to see the unfamiliar in the familiar to step back and see organization and predictability in their personal experiences Using vivid prose current examples and fresh data the Thirteenth Edition presents a unique and thought provoking overview of how society is constructed and experienced **Sedentary Behavior and Health** Weimo Zhu,Neville Owen,2017-03-03 From office jobs and long commutes to passive entertainment like television and video games humans are sitting more than ever Though lack of exercise has major health consequences researchers are now examining the additional and widespread health risk of the simple act of sitting for extended periods With research from leading scientists Sedentary Behavior and Health Concepts Assessments and Interventions presents evidence on sedentary behavior its apparent health risks and suggestions on measuring and altering this behavior The highly respected international author team provides an interdisciplinary review of current research examining scientific public health and broader social questions about the implications of sedentary behavior These topics include humans physiological predispositions exacerbation of current health conditions like obesity and diabetes and the design and ergonomics of offices and chairs To examine the many facets of this developing area of study Sedentary Behavior and Health is divided into five parts Sedentary Behavior Concepts and Context reviews the physiology of sedentary behavior investigating current habits from the perspectives of evolution industrial engineering and design Sedentary Behavior and Health explores the relationship between sedentary behavior and several major chronic diseases including obesity cardiovascular disease and low back pain Measuring and Analyzing Sedentary Behavior explains research methods for understanding and measuring sedentary behavior in order to recognize patterns and design interventions Sedentary Behavior and Subpopulations covers issues risks and behaviors in groups such as children working adults older adults and minorities Changing Sedentary Behavior provides methods and recommendations for improvement with environmental social community worksite and technology based interventions Included in this groundbreaking text are learning objectives key concepts and study questions to focus attention on key issues and reinforce concepts Reviews of the literature in the field are presented many with comparisons in table form to provide the full scope of research Sidebars throughout the text apply theoretical concepts to real world scenarios Inactivity is mismatched with many aspects of humans genetic makeup While it is becoming the new norm the consequences of this behavior are emerging as a public health threat Sedentary Behavior and Health will serve as a key reference for the rapidly emerging research area of

sedentary behavior      **Early Modern Women on Metaphysics** Emily Thomas, 2018-03-15 The work of women philosophers in the early modern period has traditionally been overlooked yet their writing on topics such as reality time mind and matter holds valuable lessons for our understanding of metaphysics and its history This volume of new essays explores the work of nine key female figures Bathsua Makin Anna Maria van Schurman Elisabeth of Bohemia Margaret Cavendish Anne Conway Damaris Cudworth Masham Mary Astell Catharine Trotter Cockburn and milie Du Ch telet Investigating issues from eternity to free will and from body to natural laws the essays uncover long neglected perspectives and demonstrate their importance for philosophical debates both then and now Combining careful philosophical analysis with discussion of the intellectual and historical context of each thinker they will set the agenda for future enquiry and will appeal to scholars and students of the history of metaphysics science religion and feminism      Newton And The Great World System Peter Rowlands, 2017-09-22 Mathematics is in many ways the most generic and abstract of all systems of human thought Once Newton found he could describe dynamics and planetary motions using purely mathematical laws and deductive processes he understood that there was no limit to what else could be explained given time and ingenuity every aspect of Nature would find its mathematical roots Newton himself repeatedly stated how aspects of chemistry biology and even human thought could be accessed by his method He also acknowledged how immense the task would be involving many contributors over many centuries however once the system was in place it could be extended indefinitely Although not fully understood during his lifetime the Newtonian method has since been applied to many subjects outside of physics including chemistry physiology and philosophy This book analyses the Newtonian method and demonstrates how it represents the very roots of our understanding of the great world system we live in today      *Collected Papers. Volume XI* Florentin Smarandache, 2022-08-01 This eleventh volume of Collected Papers includes 90 papers comprising 988 pages on Physics Artificial Intelligence Health Issues Decision Making Economics Statistics written between 2001 2022 by the author alone or in collaboration with the following 84 co authors alphabetically ordered from 19 countries Abhijit Saha Abu Su an Jack Allen Shahbaz Ali Ali Safaa Sadiq Aliya Fahmi Atiqa Fakhar Atiqa Firdous Sukanto Bhattacharya Robert N Boyd Victor Chang Victor Christianto V Christy Dao The Son Debjit Dutta Azeddine Elhassouny Fazal Ghani Fazli Amin Anirudha Ghosha Nasruddin Hassan Hoang Viet Long Jhulaneswar Baidya Jin Kim Jun Ye Darjan Karaba evi Vasilios N Katsikis Ieva Meidut Kavaliauskien F Kaymarm Nour Eldeen M Khalifa Madad Khan Qaisar Khan M Khoshnevisan Kifayat Ullah Volodymyr Krasnoholovets Mukesh Kumar Le Hoang Son Luong Thi Hong Lan Tahir Mahmood Mahmoud Ismail Mohamed Abdel Basset Siti Nurul Fitriah Mohamad Mohamed Loey Mai Mohamed K Mohana Kalyan Mondal Muhammad Gulfam Muhammad Khalid Mahmood Muhammad Jamil Muhammad Yaqub Khan Muhammad Riaz Nguyen Dinh Hoa Cu Nguyen Giap Nguyen Tho Thong Peide Liu Pham Huy Thong Gabrijela Popovi Surapati Pramanik Dmitri Rabounski Roslan Hasni Rumi Roy Tapan Kumar Roy Said Broumi Saleem Abdullah Muzafer Sara evi Ganeshsree Selvachandran Shariful Alam Shyamal Dalapati Housila P Singh R Singh Rajesh Singh Predrag S Stanimirovi



Kasan Susilo Dragi a Stanujki Alexandra andru Ovidiu Ilie andru Zenonas Turskis Yunita Umniyati Alptekin Uluta Maikel Yelandi Leyva V zquez Binyamin Yusoff Edmundas Kazimieras Zavadskas Zhao Loon Wang Climate Change, Migration and Human Rights Dimitra Manou,Andrew Baldwin,Dug Cubie,Anja Mihr,Teresa Thorp,2017-05-12 Climate Change already having serious impacts on the lives of millions of people across the world These impacts are not only ecological but also social economic and legal Among the most significant of such impacts is climate change induced migration The implications of this on human rights raise pressing questions which require serious scholarly reflection Drawing together experts in this field Climate Change Migration and Human Rights offers a fresh perspective on human rights law and policy issues in the climate change regime by examining the interrelationships between various aspects of human rights climate change and migration Three key themes are explored understanding the concepts of human dignity human rights and human security the theoretical nexus between human rights climate change and migration or displacement and the practical implications and challenges for lawyers and policy makers of protecting human dignity in the face of climate change and displacement The book also includes a series of case studies from Alaska Bangladesh Kenya and the Pacific islands which aim to improve our understanding of the theoretical and practical implications of climate change for human rights and migration This book will be of great interest to scholars of environmental law and policy human rights law climate change and migration and refugee studies Sustainability of External Imbalances Angélique Herzberg,2014-08-28 Since the mid 1990s sustainability of large and persistent current account positions have been attracting much attention from policy makers and economists alike Alongside global imbalances sustainability of imbalances within the euro area which started widening shortly after the introduction of the euro raised much concern While there exists a large body of theoretical and empirical literature on sustainability of external imbalances a systematic survey has been lacking so far Ang lique Herzberg fills this gap by examining a broad range of established sustainability measures concerning their applicability to the various global and intra euro imbalances of the recent past Furthermore the author examines the existence of feedback effects from an economy s net international investment position to its trade balance **The Gymnasium Area** Mary C. Sturgeon,2023-03-06 Volume XXIII in the Corinth series is dedicated to the finds from the Gymnasium Area excavated between 1965 and 1972 by James R Wiseman and the University of Texas at Austin Fascicle XXIII 1 presents the marble sculpture 126 pieces dating between the 6th century B C and 5th century A D and found in or near a variety of built features including the ornately decorated Bath Fountain complex Among the sculptural finds are portraits of athletes and civic officials and depictions of Dionysos Hermes and Aphrodite and the nymphs Herms and statue bases also form part of the assemblage This corpus grants us insight into the sculptural practices after the founding of the Roman colony at Corinth and critical knowledge concerning display context reuse and the deposition of sculpture at a gymnasium in a large regional center of the eastern Mediterranean *Engaging with Contemporary Challenges through Science Education Research* Olivia Levrini,Giulia Tasquier,Tamer G. Amin,Laura

Branchetti, Mariana Levin, 2021-09-24 This book starts with the premise that beauty can be an engine of transformation and authentic engagement in an increasingly complex world It presents an organized picture of highlights from the 13th European Science Education Research Association Conference ESERA 2019 held in Bologna Italy The collection includes contributions that discuss contemporary issues such as climate change multiculturalism and the flourishing of new interdisciplinary areas of investigation including the application of cognitive neuroscience artificial intelligence and digital humanities to science education research It also highlights learners difficulties engaging with socio scientific issues in a digital and post truth era The volume demonstrates that deepening our understanding is the preferred way to address these challenges and that science education has a key role to play in this effort In particular the book advances the argument that the deep and novel character of these challenges requires a collective search for new narratives and languages an expanding knowledge base and new theoretical perspectives and methods of research The book provides a contemporary picture of science education research and looks to the theoretical and practical societal challenges of the future

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