

(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	8.5	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's score. [4]

(b) Find the equation of the line of regression, y on x . [3]

(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 scores and Condé Nast Traveller's scores.

(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

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

$$= 9.23$$

(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	5	1	2	8	4

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Handbook of Leadership and Administration for Special Education Jean B. Crockett, Bonnie Billingsley, Mary Lynn Boscardin, 2012-05-31 This book brings together for the first time research informing leadership practice in special education from preschool through transition into post secondary settings It provides comprehensive coverage of 1 disability policy 2 leadership knowledge 3 school reform and 4 effective educational leadership practices Broader in scope than previous books it provides in depth analysis by prominent scholars from across the disciplines of both general and special education leadership Coverage includes historical roots policy and legal perspectives and content supporting collaborative and instructional leadership that support the administration of special education Comprehensive This is the first book to integrate the knowledge bases of special education and educational leadership as these fields impact school improvement and the performance of students with disabilities Chapter Structure Chapters provide a review of the knowledge base as well as recommendations for special education leadership and future research Multicultural Focus Addressing special education leadership within the context of a multicultural society chapters incorporate content related to the diversity of families teachers and students Expertise Chapter authors have made significant contributions to the knowledge base in their specific areas of study such as educational policy special education law and finance school reform organizational management and instructional leadership This book is a reference volume for scholars leaders and policy makers and a textbook for graduate courses in special education educational administration and policy studies Hiroshima Mathematical Journal, 2009

Becoming the News Ruth Palmer, 2017-12-05 What does it feel like to be featured quoted or just named in a news story A refugee family the survivor of a shooting a primary voter in Iowa the views and experiences of ordinary people are an important component of journalism While much has been written about how journalists work and gather stories what do we discover about the practice of journalism and attitudes about the media by focusing on the experiences of the subjects themselves In *Becoming the News* Ruth Palmer argues that understanding the motivations and experiences of those who have been featured in news stories voluntarily or not sheds new light on the practice of journalism and the importance many continue to place on the role of the mainstream media Based on dozens of interviews with news subjects *Becoming the News*

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Table of Contents Ib Math Studies Paper 2010

1. Understanding the eBook Ib Math Studies Paper 2010
 - The Rise of Digital Reading Ib Math Studies Paper 2010
 - Advantages of eBooks Over Traditional Books
2. Identifying Ib Math Studies Paper 2010
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ib Math Studies Paper 2010
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Math Studies Paper 2010
 - Personalized Recommendations
 - Ib Math Studies Paper 2010 User Reviews and Ratings
 - Ib Math Studies Paper 2010 and Bestseller Lists

5. Accessing Ib Math Studies Paper 2010 Free and Paid eBooks
 - Ib Math Studies Paper 2010 Public Domain eBooks
 - Ib Math Studies Paper 2010 eBook Subscription Services
 - Ib Math Studies Paper 2010 Budget-Friendly Options
6. Navigating Ib Math Studies Paper 2010 eBook Formats
 - ePub, PDF, MOBI, and More
 - Ib Math Studies Paper 2010 Compatibility with Devices
 - Ib Math Studies Paper 2010 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ib Math Studies Paper 2010
 - Highlighting and Note-Taking Ib Math Studies Paper 2010
 - Interactive Elements Ib Math Studies Paper 2010
8. Staying Engaged with Ib Math Studies Paper 2010
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ib Math Studies Paper 2010
9. Balancing eBooks and Physical Books Ib Math Studies Paper 2010
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ib Math Studies Paper 2010
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ib Math Studies Paper 2010
 - Setting Reading Goals Ib Math Studies Paper 2010
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ib Math Studies Paper 2010
 - Fact-Checking eBook Content of Ib Math Studies Paper 2010
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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