

(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

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Journal of Research of the National Bureau of Standards United States. National Bureau of Standards, 1974

Sherlock Holmes in Babylon and Other Tales of Mathematical History Marlow Anderson, Victor Katz, Robin Wilson, 2022-04-26 Covering a span of almost 4000 years from the ancient Babylonians to the eighteenth century this collection chronicles the enormous changes in mathematical thinking over this time as viewed by distinguished historians of mathematics from the past and the present Each of the four sections of the book Ancient Mathematics Medieval and Renaissance Mathematics The Seventeenth Century The Eighteenth Century is preceded by a Foreword in which the articles are put into historical context and followed by an Afterword in which they are reviewed in the light of current historical scholarship In more than one case two articles on the same topic are included to show how knowledge and views about the topic changed over the years This book will be enjoyed by anyone interested in mathematics and its history and in particular by mathematics teachers at secondary college and university levels

Library Journal Melvil Dewey, Richard Rogers Bowker, L. Pylodet, Charles Ammi Cutter, Bertine Emma Weston, Karl Brown, Helen E. Wessells, 1963 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Issued also separately

Algebraic and Geometric Topology, Part 1 R. James Milgram, American Mathematical Society, 1978 Contains sections on Algebraic K and L theory Surgery and its applications Group actions

Some Musings on Theta, Eta, and Zeta Floyd L. Williams, 2023-11-02 This book continues the applications of mathematics more specifically of theta eta and zeta functions and modular forms to various areas of theoretical physics It is a follow up and extension in some sense of the author's earlier book entitled A window into zeta and modular physics Some of the main topics are

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- 8 Elementary particles and my zeta function formula for higher spin fermionic particles this covers in particular the gravitino particle of spin $3/2$ and bosons with integral spin $s = 2, 3, 4, 5$

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Table of Contents Past Ib Math Studies Papers

1. Understanding the eBook Past Ib Math Studies Papers
 - The Rise of Digital Reading Past Ib Math Studies Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Past Ib Math Studies Papers
 - 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 Past Ib Math Studies Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Past Ib Math Studies Papers
 - Personalized Recommendations
 - Past Ib Math Studies Papers User Reviews and Ratings
 - Past Ib Math Studies Papers and Bestseller Lists
5. Accessing Past Ib Math Studies Papers Free and Paid eBooks

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