

(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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**Professor in the Department of Pure
Mathematics Terry Wall, Ric Pimentel**

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Bio-inspired Algorithms for Data Streaming and Visualization, Big Data Management, and Fog Computing

Simon James Fong, Richard C. Millham, 2020-08-25 This book aims to provide some insights into recently developed bio inspired algorithms within recent emerging trends of fog computing sentiment analysis and data streaming as well as to provide a more comprehensive approach to the big data management from pre processing to analytics to visualization phases The subject area of this book is within the realm of computer science notably algorithms meta heuristic and more particularly bio inspired algorithms Although application domains of these new algorithms may be mentioned the scope of this book is not on the application of algorithms to specific or general domains but to provide an update on recent research trends for bio inspired algorithms within a specific application domain or emerging area These areas include data streaming fog computing and phases of big data management One of the reasons for writing this book is that the bio inspired approach does not receive much attention but shows considerable promise and diversity in terms of approach of many issues in big data and streaming Some novel approaches of this book are the use of these algorithms to all phases of data management not just a particular phase such as data mining or business intelligence as many books focus on effective demonstration of the effectiveness of a selected algorithm within a chapter against comparative algorithms using the experimental method Another novel approach is a brief overview and evaluation of traditional algorithms both sequential and parallel for use in data mining in order to provide an overview of existing algorithms in use This overview complements a further chapter on bio inspired algorithms for data mining to enable readers to make a more suitable choice of algorithm for data mining within a particular context In all chapters references for further reading are provided and in selected chapters the author also include ideas for future research

Mathematical Studies Ron Carrell, Roger Brown, David Wees, 2013-06-06 Written by expert IB teachers examiners and curriculum specialists and with comprehensive coverage of the latest syllabi this resource uses clear explanations worked examples and practice questions to develop students mathematical knowledge as well as their logical and critical thinking

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