

[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 ( $x$ )      | 8.3 | 6.7 | 4.5 | 7.1 | 9.7 | 4.8 | 5.6 | 7.2 |
| Condé Nast Traveller's score ( $y$ ) | 8.0 | 6.8 | 4.3 | 7.2 | 9.3 | 4.2 | 6.1 | 7.1 |
| 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.

(b) Find the equation of the line of regression,  $y$  on  $x$ .

(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.

(d) Complete the two empty rank rows in the table above.

(e) (i) Find the value of the Spearman's rank correlation coefficient,  $r_s$ .

(ii) Comment on the result obtained for  $r_s$ .

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.

### Mark Scheme

(a) (i)  $r = 0.981$  [by using GDC]

(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 GDC]

(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 [3, 6, 8, 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 | 5 | 8 |
| Condé Nast Traveller's rank | 3 | 6.5 | 6.5 | 5 | 1 | 2 | 4 | 4 |

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Supplement III Michiel Hazewinkel, 2007-11-23 This is the third supplementary volume to Kluwer's highly acclaimed twelve-volume Encyclopaedia of Mathematics. This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes. These entries are arranged alphabetically throughout and a detailed index is included. This supplementary volume enhances the existing twelve volumes and together these thirteen volumes represent the most authoritative, comprehensive and up-to-date Encyclopaedia of Mathematics available.

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theory provides powerful tools for predicting complex dynamic interactions among biological and environmental processes in human behavior and health. This groundbreaking handbook provides a roadmap for integrating key concepts of developmental systems theory such as self organization, reciprocal dynamic interaction and probabilistic epigenesis and simulation models, connectionist and agent based models with advanced dynamic modeling approaches for testing these theories and models. Internationally renowned developmental science scholars present innovations in research design, measurement and analysis that offer new means of generating evidence based decisions to optimize the course of health and positive functioning across the life span. Topics include epigenetic development and evolution, the relationship between neural systems growth and psychological development, the role of family environments in shaping children's cognitive skills and associated adult outcomes and more.

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**Survey Research**, 2003   **Commonwealth Universities Yearbook** T. Craig, Hugh W. Springer, 1979   **The Stanford Dictionary of Anglicised Words and Phrases, Ed. for the Syndics of the University Press** Charles Augustus Maude Fennell, 1892   *Dictionary Catalog of the Rare Book Division* New York Public Library. Rare Book Division, 1971 Reference tool for Rare Books Collection   **Arts & Humanities Citation Index**, 2001

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