

(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
<i>Elite Traveller</i> 's score (x)	8.1	6.7	6.9	7.5	9.7	8.8	5.6	7.2
<i>Condé Nast Traveller</i> 's score (y)	8.8	6.9	6.9	7.2	9.2	6.2	6.4	7.7
<i>Elite Traveller</i> 's rank								
<i>Condé Nast Traveller</i> '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*' 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) $r = 0.961$ [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*' 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

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

$$= 9.23$$

(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
<i>Elite Traveller</i> 's rank	3	7	6	4	1	2	8	5
<i>Condé Nast Traveller</i> 's rank	1	6.5	6.5	3	1	2	8	4

Maths Studies Ib Paper 227401

**Peter Blythe, Jim Fensom, Jane
Forrest, Paula Waldman De Tokman**

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element groups are also known as the f block elements