

(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	9.2	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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**S Ben Porath**



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