

(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	4.9	7.1	9.7	8.8	5.6	7.2
Condé Nast Traveller's score ( $y$ )	8.0	6.8	4.9	7.2	9.3	8.2	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  $x$ . [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 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	8	4	1	2	6	5
Condé Nast Traveller's rank	3	6.5	6.5	5	1	2	8	4

# Ib Math Studies Past Papers

**A Gutmann**



**Ib Math Studies Past Papers:**

This book delves into Ib Math Studies Past Papers. Ib Math Studies Past Papers is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Ib Math Studies Past Papers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Ib Math Studies Past Papers
- Chapter 2: Essential Elements of Ib Math Studies Past Papers
- Chapter 3: Ib Math Studies Past Papers in Everyday Life
- Chapter 4: Ib Math Studies Past Papers in Specific Contexts
- Chapter 5: Conclusion

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3. In chapter 2, the author will delve into the foundational concepts of Ib Math Studies Past Papers. This chapter will elucidate the essential principles that need to be understood to grasp Ib Math Studies Past Papers in its entirety.

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5. In chapter 4, the author will scrutinize the relevance of Ib Math Studies Past Papers in specific contexts. The fourth chapter will explore how Ib Math Studies Past Papers is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Ib Math Studies Past Papers. The final chapter will summarize the key points that have been discussed throughout the book.

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