Correlation and regression problems

1. The following data represent the years of experience X and salary Y(in thousand dollars) of a random sample of professional engineers (n = 27)

X	1	2	2	3	3	4	4	6	6	6	7	7	9	9	9	12	12
Y	25	28	37	31	40	36	43	40	43	51	42	55	41	51	60	50	64

13	14	18	18	20	21	22	22	25	25
52	66	53	70	70	60	61	71	58	74

   a. Find the coefficient of correlation r.
   b. Is it sufficient sample evidence to indicate that there is linear correlation between the years of experience and salary?
   c. Test the hypothesis that $\rho = 0.6$ against the alternative $\rho > 0.6$. Use $\alpha = 0.01$

2. A chemical engineer is studying the effect of temperature on the yield of a certain product in chemical process. The process is run 10 times and the following data is observed for the temperature of each process X and corresponding yield Y.

Temperature X (in °C)	95	110	118	124	145	140	185	190	205	222
Yield (in kgs)	108	126	102	121	118	155	158	178	159	184

The following information is available: $\sum x = 1534$, $\sum x^2 = 252,684$, $\sum y = 1409$, $\sum y^2 = 206,319$

$\sum xy = 226,463$

   a. Find the coefficient of correlation r.
   b. Is it sufficient sample evidence to indicate that there is linear correlation between temperature and yield of chemical product?
   c. Test the hypothesis that $\rho = 0.8$ against the alternative $\rho \neq 0.8$. Use $\alpha = 0.05$

Correlation And Regression Problems And Solutions

Richard Armand DeFusco

Correlation And Regression Problems And Solutions:

Objective Statistics Dr. S.C. Gupta,Dr. Sanjeev Kumar Gupta,Ananya Gupta,2024-05-01 Most of the Institutions Organisations in India are conducting examinations under Multiple Choice Tests for admissions or jobs in their Institutions or Organizations The book Objective Statistics is a comprehensive book in statistics based on Multiple Choice Questions MCQs and is intended for the students preparing for the competitive examinations conducted by Indian Statistical Service I S S Staff Selection Commission S S C Junior Statistical Officers JSO IIT Joint Admission Test for Masters JAM CSIR NET JRF for subject Mathematical Sciences and many other Competitive Examinations This book is a modest though determined bid to meet the requirements of the students of Mathematical Statistics at Undergraduate Pass and Honors and Postgraduate level and those preparing for the competitive examinations mentioned above The book contains 11 chapters Exercise Sets and Multiple Choice Questions A special feature of the book is that at the end of each Exercise Set the Answer Sheet as well as the Solutions to each question in the Exercise Set have been given *The Degree of Ability to Solve Written Problems in Algebra as a Prognosis of Success in First Semester Plane Geometry* Hanson Hale Anderson,1929 *Core Data Analysis: Summarization, Correlation, and Visualization* Boris Mirkin,2019-04-15 This text examines the goals of data analysis with respect to enhancing knowledge and identifies data summarization and correlation analysis as the core issues Data summarization both quantitative and categorical is treated within the encoder decoder paradigm bringing forward a number of mathematically supported insights into the methods and relations between them Two Chapters describe methods for categorical summarization partitioning divisive clustering and separate cluster finding and another explain the methods for quantitative summarization Principal Component Analysis and PageRank Features An in depth presentation of K means partitioning including a corresponding Pythagorean decomposition of the data scatter Advice regarding such issues as clustering of categorical and mixed scale data similarity and network data interpretation aids anomalous clusters the number of clusters etc Thorough attention to data driven modelling including a number of mathematically stated relations between statistical and geometrical concepts including those between goodness of fit criteria for decision trees and data standardization similarity and consensus clustering modularity clustering and uniform partitioning New edition highlights Inclusion of ranking issues such as Google PageRank linear stratification and tied rankings median consensus clustering semi average clustering one cluster clustering Restructured to make the logics more straightforward and sections self contained Core Data Analysis Summarization Correlation and Visualization is aimed at those who are eager to participate in developing the field as well as appealing to novices and practitioners **CMA Examination Review: Problems and solutions** Irvin N. Gleim,Dale L. Flesher,1992 *Using Statistics to Make Educational Decisions* David Tanner,2012 Government scrutiny and intensified oversight have dramatically changed the landscape of education in recent years Observers want to know how schools compare which district is best which states are spending the most per student on education whether reforms are

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