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## Applied Statistics Exercises

With Solutions

**Problem 1:** A researcher collected the following data on customer satisfaction scores: 58.8, 64.1, 55.5, 69.6, 56.9, 63, 61.8, 58.9, 57.6, 57.7, 60.2, 52.4, 60.5, 63.1, 56.6, 52, 62.7, 53.7, 61.8, 58, 54.8, 61.2, 62.5. Calculate: a) The sample mean b) The sample standard deviation c) The median and quartiles d) Interpret the results in context

**Solution:**

Solution:

a) Sample mean ( $\bar{x}$ ):

$$\bar{x} = \Sigma x/n = 1363.4/23 = 59.28$$

b) Sample standard deviation ( $s$ ):

$$s = \sqrt{[\Sigma(x - \bar{x})^2/(n-1)]} = 4.18$$

c) Median and quartiles:

Ordered data: 52, 52.4, 53.7, 54.8, 55.5, 56.6, 56.9, 57.6, 57.7, 58, 58.8, 58.9, 60.2, 60.5, 61.2, 61.8, 61.8, 62.5, 62.7, 63, 63.1, 64.1, 69.6

Median (Q2) = 58.9

Q1 = 56.6

Q3 = 62.5

d) Interpretation:

The average satisfaction score is 59.28, with moderate variability ( $s = 4.18$ ).

50% of scores fall between 56.6 and 62.5.

**Problem 2:** A company claims their average delivery time is 50 minutes. A sample of 64 deliveries shows a mean of 53.6 minutes with a standard deviation of 12.9 minutes. Test at  $\alpha = 0.05$  level:  $H_0: \mu = 50$   $H_a: \mu \neq 50$  a) Calculate the test statistic b) Find the critical value(s) c) Make a decision and state your conclusion

**Solution:**

Solution:

a) Test statistic:

$$t = (\bar{X} - \mu_0)/(s/\sqrt{n}) = (53.6 - 50)/(12.9/\sqrt{64})$$

# Statistics For Technology A Course In Applied Statistics

**Judith V. Boettcher**



## **Statistics For Technology A Course In Applied Statistics:**

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**Proceedings of the Section on Statistical Education** American Statistical Association. Section on Statistical Education,1996

[Bulletin of Courses - Applied Statistics Training Institute](#) Applied Statistics Training Institute (U.S.),1980

**Current Index to Statistics, Applications, Methods and Theory** ,1984 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields

**Food Technology in Australia** ,1984

**Applied Statistics** Abdul Quader Miah,Moḡ. Ābadula Kādera Miḡa,Howard R.

Simpson,1993 *Teaching and Learning Mathematics Online* James P. Howard, II,John F. Beyers,2020-05-10 Online education has become a major component of higher education worldwide In mathematics and statistics courses there exists a number of challenges that are unique to the teaching and learning of mathematics and statistics in an online environment These challenges are deeply connected to already existing difficulties related to math anxiety conceptual understanding of mathematical ideas communicating mathematically and the appropriate use of technology Teaching and Learning Mathematics Online bridges these issues by presenting meaningful and practical solutions for teaching mathematics and statistics online It focuses on the problems observed by mathematics instructors currently working in the field who strive to hone their craft and share best practices with our professional community The book provides a set of standard practices improving the quality of online teaching and the learning of mathematics Instructors will benefit from learning new techniques and approaches to delivering content Features Based on the experiences of working educators in the field Assimilates the latest technology developments for interactive distance education Focuses on mathematical education for developing early mathematics courses

*Applied Intelligence* De-Shuang Huang,Wei Chen,Chuanlei Zhang,Yijie Pan,Qinhu Zhang,Xiangzeng Kong,2025-02-23 This 2 volume set CCIS 2387 2388 constitutes the proceedings of the Second International Conference on Applied Intelligence ICAI 2024 held in Zhengzhou China during November 22 25 2024 The 72 full papers presented in this proceedings were carefully reviewed and selected from 228 submissions The papers cover a wide range on theoretical aspects of biomedical data modeling and mining computer vision and deep learning They were organized in topical sections as follows Part I Biomedical data modeling and mining information security pattern recognition Part II Image Processing intelligent data analysis and prediction machine learning

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Christopher Chatfield,1975 *Peterson's Graduate Programs in Computer Science & Information Technology, Electrical & Computer Engineering, and Energy & Power Engineering 2011* Peterson's,2011-05-01 Peterson's Graduate Programs in Computer Science Information Technology Electrical Computer Engineering and Energy Power Engineering contains a wealth of information on colleges and universities that offer graduate work these exciting fields The profiled institutions include those in the United States Canada and abroad that are accredited by U S accrediting bodies Up to date data collected through Peterson's Annual Survey of Graduate and Professional Institutions provides valuable information on degree offerings professional accreditation jointly offered degrees part time and evening weekend programs postbaccalaureate distance degrees faculty students degree requirements entrance requirements expenses financial support faculty research and unit head and application contact information Readers will find helpful links to in depth descriptions that offer additional detailed information about a specific program or department faculty members and their research and much more In addition there are valuable articles on financial assistance the graduate admissions process advice for international and minority students and facts about accreditation with a current list of accrediting agencies

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