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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

JG Myers



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Table of Contents Statistics For Technology A Course In Applied Statistics

1. Understanding the eBook Statistics For Technology A Course In Applied Statistics
 - The Rise of Digital Reading Statistics For Technology A Course In Applied Statistics
 - Advantages of eBooks Over Traditional Books
2. Identifying Statistics For Technology A Course In Applied Statistics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Statistics For Technology A Course In Applied Statistics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Statistics For Technology A Course In Applied Statistics
 - Personalized Recommendations
 - Statistics For Technology A Course In Applied Statistics User Reviews and Ratings
 - Statistics For Technology A Course In Applied Statistics and Bestseller Lists
5. Accessing Statistics For Technology A Course In Applied Statistics Free and Paid eBooks
 - Statistics For Technology A Course In Applied Statistics Public Domain eBooks
 - Statistics For Technology A Course In Applied Statistics eBook Subscription Services
 - Statistics For Technology A Course In Applied Statistics Budget-Friendly Options
6. Navigating Statistics For Technology A Course In Applied Statistics eBook Formats

- ePub, PDF, MOBI, and More
 - Statistics For Technology A Course In Applied Statistics Compatibility with Devices
 - Statistics For Technology A Course In Applied Statistics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Statistics For Technology A Course In Applied Statistics
 - Highlighting and Note-Taking Statistics For Technology A Course In Applied Statistics
 - Interactive Elements Statistics For Technology A Course In Applied Statistics
 8. Staying Engaged with Statistics For Technology A Course In Applied Statistics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Statistics For Technology A Course In Applied Statistics
 9. Balancing eBooks and Physical Books Statistics For Technology A Course In Applied Statistics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Statistics For Technology A Course In Applied Statistics
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Statistics For Technology A Course In Applied Statistics
 - Setting Reading Goals Statistics For Technology A Course In Applied Statistics
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Statistics For Technology A Course In Applied Statistics
 - Fact-Checking eBook Content of Statistics For Technology A Course In Applied Statistics
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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