

## AN INTRODUCTION TO CATEGORICAL DATA ANALYSIS, 2nd ed.

### SOLUTIONS TO SELECTED PROBLEMS for STA 4504/5503

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#### Chapter 1

1. Response variables are (a) Attitude toward gun control, (b) Heart disease, (c) Vote for President, (d) Quality of life.

2.a. nominal, b. ordinal, c. ordinal, d. nominal, e. nominal, f. ordinal

3.a. Binomial,  $n = 100$ ,  $\pi = 0.25$ .

b. The mean is  $n\pi = 25$  and the standard deviation is  $\sqrt{n\pi(1-\pi)} = 4.33$ . 50 correct responses would be surprising, since 50 is  $z = (50 - 25)/4.33 = 5.8$  standard deviations above the mean of a distribution that is approximately normal.

4.a.  $Y$  is binomial for  $n = 2$  and  $\pi = 0.50$ . Thus,  $Y = 0$  with probability 0.25,  $Y = 1$  with probability 0.50, and  $Y = 2$  with probability 0.25. The mean is  $2(0.50) = 1.0$  and the standard deviation is  $\sqrt{2(0.50)(0.50)} = 0.71$ .

b.(i)  $P(Y = 0) = 0.16$ ,  $P(Y = 1) = 0.48$ ,  $P(Y = 2) = 0.36$ ;

(ii)  $P(Y = 0) = 0.36$ ,  $P(Y = 1) = 0.48$ ,  $P(Y = 2) = 0.16$ .

c.  $f(\pi) = 2\pi(1 - \pi)$ .

d. From the plot or using calculus by taking the derivative and setting it equal to 0, the function  $f(\pi) = 2\pi(1 - \pi)$  takes its maximum value at  $\pi = 0.50$ .

8.a. 0.294. b.  $z = -14.9$ , P-value  $< 0.0001$ . Conclude that minority of population would say 'yes.'

c.  $p \pm 1.96\sqrt{p(1-p)/n}$  is  $0.294 \pm 2.58(0.0133)$ , or (0.26, 0.33).

12.a.  $SE = 0$ , and the  $z$  statistic equals  $-\infty$ .

b. CI is (0, 0); no, in the population we expect some vegetarians, even if the proportion is small.

c.  $z = (0 - 0.50)/\sqrt{0.50(0.50)/25} = -5.0$ , P-value  $< 0.0001$ .

d. Note  $z = (0 - 0.133)/\sqrt{0.133(0.133)/25} = -1.96$ , so 0.133 is the null value that has a P-value of 0.05.

15.a.  $\sigma(p)$  equals the binomial standard deviation  $\sqrt{n\pi(1-\pi)}$  divided by the sample size  $n$ .

b.  $\sigma(p)$  takes its maximum value at  $\pi = 0.50$  and its minimum at  $\pi = 0$  and 1. If  $\pi = 1$ , for instance, every observation must be a success, and the sample proportion  $p$  equals  $\pi$  with probability 1.

#### Chapter 2

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**M Lipman**



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## **Table of Contents Categorical Data Analysis Exam Solution**

1. Understanding the eBook Categorical Data Analysis Exam Solution
  - The Rise of Digital Reading Categorical Data Analysis Exam Solution
  - Advantages of eBooks Over Traditional Books
2. Identifying Categorical Data Analysis Exam Solution
  - 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 Categorical Data Analysis Exam Solution
  - User-Friendly Interface
4. Exploring eBook Recommendations from Categorical Data Analysis Exam Solution
  - Personalized Recommendations
  - Categorical Data Analysis Exam Solution User Reviews and Ratings
  - Categorical Data Analysis Exam Solution and Bestseller Lists
5. Accessing Categorical Data Analysis Exam Solution Free and Paid eBooks
  - Categorical Data Analysis Exam Solution Public Domain eBooks
  - Categorical Data Analysis Exam Solution eBook Subscription Services
  - Categorical Data Analysis Exam Solution Budget-Friendly Options
6. Navigating Categorical Data Analysis Exam Solution eBook Formats

- ePub, PDF, MOBI, and More
  - Categorical Data Analysis Exam Solution Compatibility with Devices
  - Categorical Data Analysis Exam Solution Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Categorical Data Analysis Exam Solution
    - Highlighting and Note-Taking Categorical Data Analysis Exam Solution
    - Interactive Elements Categorical Data Analysis Exam Solution
  8. Staying Engaged with Categorical Data Analysis Exam Solution
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Categorical Data Analysis Exam Solution
  9. Balancing eBooks and Physical Books Categorical Data Analysis Exam Solution
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Categorical Data Analysis Exam Solution
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Categorical Data Analysis Exam Solution
    - Setting Reading Goals Categorical Data Analysis Exam Solution
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Categorical Data Analysis Exam Solution
    - Fact-Checking eBook Content of Categorical Data Analysis Exam Solution
    - 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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