

INSTRUCTOR'S MANUAL CATEGORICAL DATA ANALYSIS Solutions to Selected Problems

Alan Agresti

Version January 2, 2002, ©Alan Agresti 2002

This manual contains solutions and hints to solutions for many of the exercises in *Categorical Data Analysis*, second edition, by Alan Agresti (John Wiley, & Sons, 2002). It is prepared for instructors who use this book as a course text. It should not be distributed elsewhere without permission of the author or of John Wiley & Sons.

Please report any errors in these solutions to the author (Dept. of Statistics, University of Florida, Gainesville, Florida 32611-8545, e-mail AAGSTAT.UFL.EDU), so they can be corrected in future revisions of the manual.

Chapter 1

1. a. nominal, b. ordinal, c. interval, d. nominal, e. ordinal, f. nominal, g. ordinal.
2. a. Binomial, $n = 100$, $\pi = .25$.
b. The mean is $n\pi = 25$ and the standard deviation is $\sqrt{n\pi(1-\pi)} = 4.33$. Yes, 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.
c. Multinomial, $n = 100$, $\pi_1 = \dots = \pi_4 = 0.25$.
d. $E(n_j) = n\pi_j = 25$, $\text{Var}(n_j) = n\pi_j(1 - \pi_j) = 100(.25)(.75) = 18.75$, $\text{Cov}(n_j, n_k) = -n\pi_j\pi_k = -100(.25)(.25) = -6.25$, $\text{Corr}(n_j, n_k) = -6.25/\sqrt{(18.75)(18.75)} = -.333$.
3. π varies from batch to batch, so the counts come from a mixture of binomials rather than a single $\text{Bin}(n, \pi)$. $\text{Var}(Y) = E[\text{Var}(Y | \pi)] + \text{Var}[E(Y | \pi)] > E[\text{Var}(Y | \pi)] = E[n\pi(1 - \pi)]$.
4. a. The geometric probability, $(5/6)^y$.
b. Note that $Y = y$ when there are $y - 1$ successes and then a failure. The probability of a sequence of independent events is the product of the probabilities of the separate events. Thus, $p(y) = (5/6)^{y-1}(1/6)$, $y = 1, 2, \dots$.
5. $\hat{\pi} = 842/1824 = .462$, so $z = (.462 - .5)/\sqrt{.5(.5)/1824} = -3.28$, for which $P = .001$ for $H_a: \pi \neq .5$. The 95% Wald CI is $.462 \pm 1.96\sqrt{.462(.538)/1824} = .462 \pm .023$, or $(.439, .485)$. The 95% score CI is also $(.439, .485)$.
- 6a. Expected frequency = 12.5 for each category. For the count of 0, $0 \log(0/12.5) = 0$, so result follows.
b. Score statistic $z = (0 - .5)/\sqrt{.5(.5)/25} = -5.0$, so $z^2 = 25.0$.
c. $z = (0 - .5)/\sqrt{0(1.0)/25} = -\infty$.
7. a. $\theta(\pi) = \pi^{20}$, so $\hat{\pi} = 1.0$.
b. Wald statistic $z = (1.0 - .5)/\sqrt{1.0(0)/20} = \infty$. Wald CI is $1.0 \pm 1.96\sqrt{1.0(0)/20} = 1.0 \pm 0.0$, or $(1.0, 1.0)$.
c. $z = (1.0 - .5)/\sqrt{.5(.5)/20} = 4.47$, $P < .0001$. Score CI is $(0.839, 1.000)$.
d. Test statistic $2(20) \log(20/10) = 27.7$, $df = 1$. From problem 1.25a, the CI is $(\exp(1.96^2/40), 1) = (0.908, 1.0)$.
e. $P\text{-value} = 2(.5)^{20} = .00000191$. Clopper-Pearson CI is $(0.832, 1.000)$. CI using Blaker method is $(0.840, 1.000)$.

Introduction Categorical Data Analysis Solution Manual

Katrin Zwirgmaier



Introduction Categorical Data Analysis Solution Manual:

Ignite the flame of optimism with Crafted by is motivational masterpiece, **Introduction Categorical Data Analysis Solution Manual** . In a downloadable PDF format (*), this ebook is a beacon of encouragement. Download now and let the words propel you towards a brighter, more motivated tomorrow.

<https://staging.conocer.cide.edu/About/virtual-library/index.jsp/grammar%20of%20dreams%20a.pdf>

Table of Contents Introduction Categorical Data Analysis Solution Manual

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

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

Introduction Categorical Data Analysis Solution Manual Introduction

In the digital age, access to information has become easier than ever before. The ability to download Introduction Categorical Data Analysis Solution Manual has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Introduction Categorical Data Analysis Solution Manual has opened up a world of possibilities.

Downloading Introduction Categorical Data Analysis Solution Manual provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading Introduction Categorical Data Analysis Solution Manual has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Introduction Categorical Data Analysis Solution Manual. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Introduction Categorical Data Analysis Solution Manual. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When downloading Introduction Categorical Data Analysis Solution Manual, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites they are downloading from. In conclusion, the ability to download Introduction Categorical Data Analysis Solution Manual has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

FAQs About Introduction Categorical Data Analysis Solution Manual Books

1. Where can I buy Introduction Categorical Data Analysis Solution Manual books? Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
3. How do I choose a Introduction Categorical Data Analysis Solution Manual book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.
4. How do I take care of Introduction Categorical Data Analysis Solution Manual books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.
7. What are Introduction Categorical Data Analysis Solution Manual audiobooks, and where can I find them? Audiobooks: Audio recordings of books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.
8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores. Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.
9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.
10. Can I read Introduction Categorical Data Analysis Solution Manual books for free? Public Domain Books: Many classic books are available for free as they're in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Introduction Categorical Data Analysis Solution Manual :

[grammar of dreams a](#)

grade 6 mathematics student 6b

grande breteche

[goya en aragon coleccion ibarica](#)

~~gran angular adios alvaro by~~

graham cave revisited a reevaluation of its cultural position during the archaic period

grand bahama a rich and colourful history

[grand keyboard classics](#)

~~grammar in use japanese edition~~

governing germany comparative modern germany

grammar and composition grade 7

[grand canyon audio on tape](#)

gp where people shop pb

grammar homework helpers

gradesummit finance access card

Introduction Categorical Data Analysis Solution Manual :

Long Drive Mini Q Answer Key Fill Long Drive Mini Q Answer Key, Edit online. Sign, fax and printable from PC, iPad, tablet or mobile with pdfFiller ☐ Instantly. Try Now! The Long Drive DBQ The Long Drive DBQ quiz for 9th grade students. Find other quizzes for Social Studies and more on Quizizz for free! Long Drive Mini Q Answer Key Form - Fill Out and Sign ... Get long drive mini q document b answer key signed right from your mobile phone using these six steps: Enter signnow.com in the phone's internet browser and ... The Long Drive: Will you Re-Up? Flashcards Study with Quizlet and memorize flashcards containing terms like 5 Million, 1/3, brushpopper and more. The Long Drive, The Long Drive: Will You Re-Up Next Year? The Long Drive Document Based Question Vocabulary Learn with flashcards, games, and more — for free. Long Drive Dbq Pdf Answer Key - Colaboratory Fill each fillable field. Ensure that the info you fill in Long Drive Mini Q Document A Answer Key is updated and accurate. Include the date to the form using ... The Long Drive: Will You Re-Up Next Year? This Mini-Q offers a glimpse of this remarkable time in Texas history. The Documents: Document A: The Long Drive Trail (map). Document B: Cowboys By the Numbers ... Black Cowboys DBQ.docx - Long Drive Mini-Q Document B... View Black Cowboys DBQ.docx

from SOCIAL STUDIES 101 at Southwind High School. Long Drive Mini-Q Document B Source: Chart compiled from various sources. Long Drive Mini-Q A typical cattle drive covered about 15 miles per day. Figuring a six-day week (no work on the Sabbath) and no delays, how many weeks did it take to go from ... XNJ2 Amazon - Lodging - Keasbey, New Jersey XNJ2 Amazon is a Lodging located at 19 Crows Mill Rd, Keasbey, Keasbey, New Jersey 08832, US. The establishment is listed under lodging category. Bloomsbury to High Bridge - XNJ2 This new route starts just across the Delaware in Easton PA where we cross over to Phillipsburg and make our way to Bloomsbury, Clinton, High Bridge, Chester ... Jazzy (xnj2) - Profile See what Jazzy (xnj2) has discovered on Pinterest, the world's biggest collection of ideas. Search results for 'xnj2' Search results for 'xnj2'. Blog Menu. Categories. Browse All Stories (514) · Garden Tips (124) · Garden Design (124) · Life & Style (76) · Edibles (24) ... Xnj2 - A.frame - Oscars.org This website uses cookies. This website uses cookies to deliver our content and to provide personalized features. Instructions for disabling cookies are in ... in [JI]-[J4]. • or $X = UnXn$, where $[Xn]2 < ; /C1$ for all $n < w$." by W Just · Cited by 21 — Throughout this note, "ideal" means a proper ideal I in the Boolean algebra pew that contains Fin -the ideal of finite subsets of w . We often. P486 XNJ (2) | 1997 Renault Clio RL Paris 1.2 3-door. ... Jan 15, 2019 — 1997 Renault Clio RL Paris 1.2 3-door. Supplied by West Sussex Motors (Renault). Xnj(2) - YouTube XNJ2-9F4Q: Attention Induced Trading and Returns Nov 5, 2021 — XNJ2-9F4Q: Attention Induced Trading and Returns: Evidence f... Publication date: 2021. Contributor: Perma.cc. Perma.cc archive of <https://ssrn> ... Circuits - Gizmo Lab Answers - Name Answers to the Circuits Gizmo Lab. All questions answered. name: date: student exploration: circuits vocabulary: ammeter, circuit, current, electron, Circuits Student Exploration Gizmo Worksheet - Name All the information needed for completeing the student exploration worksheet on the circuits gizmo. Answers can be used freely. Student Exploration: Circuits (gizmos) Flashcards Study with Quizlet and memorize flashcards containing terms like Suppose a single light bulb burns out. How do you think this will affect lights that are ... Circuit gizmo answers Circuit builder gizmo assessment answers. Gizmo circuit builder answers. Circuits gizmo answer key. Advanced circuit gizmo answers. Student Exploration: Circuits: Vocabulary: Ammeter, ... Name: Grayson Smith Date: 3/18/21. Student Exploration: Circuits. Vocabulary: ammeter, circuit, current, electron, ohmmeter, Ohm's law, parallel circuit, SOLUTION: Student Exploration Circuits Gizmos Worksheet Our verified tutors can answer all questions, from basic math to advanced rocket science! ... key content concepts and personal experiences (6 points)/27 pts. Building Circuits Virtual Lab | ExploreLearning Gizmos Teach students about circuits with ExploreLearning Gizmos! Students use this ... Student Exploration Sheet. Google Doc MS Word PDF. Exploration Sheet Answer Key.