

1. The pesticide diazinon is in common use to treat infestations of the German cockroach, *Blattella germanica*. A study investigated the persistence of this pesticide on various types of surfaces. Researchers applied a 0.5% emulsion of diazinon to glass and plasterboard. After 14 days, they randomly assigned 72 cockroaches to two groups of 36, placed one group on each surface, and recorded the number that died within 48 hours. On glass, 13 cockroaches died, while on plasterboard, 25 died. Construct and interpret a 90% confidence interval for the difference in the proportion of cockroaches that die on each surface.

**State:** Our parameters of interest are

$p_1$  = the proportion of all cockroaches similar to those in the study that die on plasterboard and

$p_2$  = the proportion of all cockroaches similar to those in the study that die on glass

We want to estimate the difference  $p_1 - p_2$ , at a 90% confidence level.

**Plan:** We should use a 2-sample z-interval for  $p_1 - p_2$ .

**Random:** Cockroaches were randomly assigned to one of the two treatment groups, plasterboard or glass.

**Large Counts/Normal:** Number of successes and failures in the two groups are 25, 11, 13, and 18, all of which are at least 10, it is safe to do Normal calculations.

**10%:** Since no sampling took place, the 10% condition does not apply.

$$\hat{p}_1 = \frac{25}{36} = 0.694 \quad \text{and} \quad \hat{p}_2 = \frac{13}{36} = 0.361$$

**Do:** 
$$(\hat{p}_1 - \hat{p}_2) \pm z^* \sqrt{\frac{\hat{p}_1(1 - \hat{p}_1)}{n_1} + \frac{\hat{p}_2(1 - \hat{p}_2)}{n_2}} = (0.694 - 0.361) \pm 1.645 \sqrt{\frac{0.694(1 - 0.694)}{36} + \frac{0.361(1 - 0.361)}{36}} = (0.00807, 0.38082)$$

**Conclude:** We are 90% confident that the interval from 0.00807 to 0.38082 captures the true difference in the proportion of cockroaches that die on glass versus the proportion that die on plasterboard.

For # 2 – 5, choose the correct procedure.

- Paired t Test for  $\mu$
- Two-Sample z Interval for a Difference between Two Proportions
- Two-Sample z Test for a Difference between Two Proportions
- Two-Sample t Interval for a Difference between Two Means
- Two-Sample t Test for a Difference between Two Means

2. A study of “adverse symptoms” in users of over-the-counter pain relief medications assigned subjects at random to one of two common pain relievers: acetaminophen and ibuprofen. In all, 650 subjects took a cetaminophen, and 44 experienced some adverse symptom. Of the 347 subjects who took ibuprofen, 49 had an adverse symptom. Estimate the true difference in the proportions of people who experience adverse reactions to these two medications.

**b) Two-Sample z Interval for a Difference between Two Proportions:**

3. As the Hispanic population in the United States has grown, businesses have tried to understand what Hispanics like. One study interviewed a random sample of customers leaving a bank. Customers were classified as Hispanic if they preferred to be interviewed in Spanish or as Anglo if they preferred English. Each customer rated the importance of several aspects of bank service on a 10-point scale. Here are summary results for the importance of “reliability” (the accuracy of account records and so on):

| Group    | n  | $\bar{x}$ | $s_x$ |
|----------|----|-----------|-------|
| Anglo    | 92 | 6.37      | 0.60  |
| Hispanic | 85 | 5.91      | 0.93  |

What inference procedure would you use to estimate the difference between the mean ratings of the importance of reliability for Anglo and Hispanic bank customers?

**d) Two-Sample t Interval for a Difference between Two Means**

# Statistics Chapter 10 Answers

**C Cleary**



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## **Table of Contents Statistics Chapter 10 Answers**

1. Understanding the eBook Statistics Chapter 10 Answers
  - The Rise of Digital Reading Statistics Chapter 10 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Statistics Chapter 10 Answers
  - 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 Chapter 10 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Statistics Chapter 10 Answers
  - Personalized Recommendations
  - Statistics Chapter 10 Answers User Reviews and Ratings
  - Statistics Chapter 10 Answers and Bestseller Lists
5. Accessing Statistics Chapter 10 Answers Free and Paid eBooks
  - Statistics Chapter 10 Answers Public Domain eBooks
  - Statistics Chapter 10 Answers eBook Subscription Services
  - Statistics Chapter 10 Answers Budget-Friendly Options

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