

AP Statistics – Chapter 4 Test Review

Sampling Error

Occurs in the act of choosing the sample

- ❖ Undercoverage – certain members of population are 'left out'

Suppose we use poll people a group of people at a golf tournament about how they feel about the Affordable Care Act...

Non Sampling Error

Occurs after sample is chosen

- ❖ Non response – cannot be surveyed or refuse to answer question.
- ❖ Response Bias
- ❖ Poorly Worded Questions

QUESTIONS:

#1. Which type of error is made when you use phone calls to sample people, but you call during working hours?

- **Answer: Non Response (non sampling error)**

#2. Which type of error is made when you use a telephone to sample people?

- **Answer: Under coverage (sampling error)**

#3. What type of error is shown below:

- **Question:** "How do you feel that the extremely expensive Affordable Care Act will help you and your family's overall health and wellness?"
- **Answer:** It is a poorly worded question (non-sampling error) and will **UNDERESTIMATE** the support for the A.C.A.

- ❖ **Voluntary Response Sample**
 - Participants 'choose' or volunteer themselves (not random; very biased)
- ❖ **Convenience Sample**
 - We only include who is 'convenient' to survey. (not truly random; biased)
- ❖ **Simple Random Sample (SRS)**
 - Every person has an equal chance to be selected ("all the names are in 'one pot'")
DO NOT BREAK INTO GROUPS!!!
- ❖ **Stratified Random Sample**
 - Population is divided into groups or 'strata' that are made up of similar individuals within each group. You do an SRS within each group.
- ❖ **Systematic Sample**
 - We sample every 'kth' person after the first person is randomly selected.
- ❖ **Multi-Stage Sample**
 - Done on a large scale; combining other types of sampling methods; you sample to choose **GROUPS**, then sample within the groups.
- ❖ **Cluster Sample**
 - Population is divided into groups that don't necessarily all look alike; the clusters should 'mirror the population; you sample to choose **GROUPS**, then take a census within the group.

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Table of Contents Chapter 4 Ap Statistics Test

1. Understanding the eBook Chapter 4 Ap Statistics Test
 - The Rise of Digital Reading Chapter 4 Ap Statistics Test
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 4 Ap Statistics Test
 - 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 Chapter 4 Ap Statistics Test
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 4 Ap Statistics Test
 - Personalized Recommendations
 - Chapter 4 Ap Statistics Test User Reviews and Ratings
 - Chapter 4 Ap Statistics Test and Bestseller Lists

5. Accessing Chapter 4 Ap Statistics Test Free and Paid eBooks
 - Chapter 4 Ap Statistics Test Public Domain eBooks
 - Chapter 4 Ap Statistics Test eBook Subscription Services
 - Chapter 4 Ap Statistics Test Budget-Friendly Options
6. Navigating Chapter 4 Ap Statistics Test eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 4 Ap Statistics Test Compatibility with Devices
 - Chapter 4 Ap Statistics Test Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 4 Ap Statistics Test
 - Highlighting and Note-Taking Chapter 4 Ap Statistics Test
 - Interactive Elements Chapter 4 Ap Statistics Test
8. Staying Engaged with Chapter 4 Ap Statistics Test
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 4 Ap Statistics Test
9. Balancing eBooks and Physical Books Chapter 4 Ap Statistics Test
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 4 Ap Statistics Test
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 4 Ap Statistics Test
 - Setting Reading Goals Chapter 4 Ap Statistics Test
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 4 Ap Statistics Test
 - Fact-Checking eBook Content of Chapter 4 Ap Statistics Test
 - 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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