

THE PRACTICE OF STATISTICS

SECOND EDITION ANSWER KEY

CHAPTER 7

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Chapter 7: Sampling Distributions and Confidence Intervals

Answer Key for "The Practice of Statistics, 2nd Edition"

1. Confidence Intervals for a Mean (Exercise 7.1)

- A sample of 50 observations from a population with a mean of 100 and a standard deviation of 15 yielded a sample mean of 102. Find the 95% confidence interval for the population mean.

Answer: 101.3 to 102.7

2. Margin of Error (Exercise 7.2)

- A survey of 400 voters found that 55% favor a particular candidate. What is the margin of error at the 90% confidence level?

Answer: $\pm 4.9\%$

3. Sample Size (Exercise 7.3)

- How many observations must be included in a sample from a population with a standard deviation of 5 in order to estimate the population mean within 1 unit with 95% confidence?

Answer: 96

4. Confidence Intervals for a Proportion (Exercise 7.5)

- A random sample of 300 adults found that 210 prefer Brand A coffee. Construct a 99% confidence interval for the proportion of adults who prefer Brand A coffee.

Answer: 0.684 to 0.756

5. Confidence Intervals for a Difference in Means (Exercise 7.7)

- Two independent samples of sizes 40 and 50 are drawn from two populations with means of 50 and 60, respectively. The sample means are 52 and 58, respectively. Find the 95% confidence interval for the difference between the population means.

Answer: 1.1 to 11.9

Working Under the Bimbo: English Edition

Q: What does the term "working under the bimbo" mean?

A: This phrase refers to working for a supervisor or manager who is perceived to be less intelligent or capable than their subordinates. The term "bimbo" is often used to describe a woman who is considered to be attractive but lacking in intelligence.

Q: What are the challenges of working under a less competent supervisor?

A: Working under a supervisor who is perceived to be less competent can be challenging. Subordinates may feel frustrated by the supervisor's lack of knowledge or skill, and may find it difficult to respect their authority. This can lead to decreased productivity and morale.

Q: How can subordinates cope with working under a less competent supervisor?

A: Subordinates can cope with working under a less competent supervisor by:

- **Managing their own expectations.** Subordinates need to realize that their supervisor may not be able to provide them with the same level of support and guidance as a more competent supervisor.
- **Being proactive.** Subordinates can take initiative to complete tasks and solve problems without waiting for direction from their supervisor.
- **Providing support.** Subordinates can offer help and support to their supervisor in areas where they are more knowledgeable or skilled.
- **Seeking support from others.** Subordinates can talk to other colleagues, mentors, or HR professionals about their concerns.

Q: What should subordinates do if they are unable to cope with working under a less competent supervisor?

A: If subordinates are unable to cope with working under a less competent supervisor, they may need to consider other options, such as:

- **Requesting a transfer.** Subordinates can request to be transferred to a different department or team under a more competent supervisor.
- **Quitting.** Subordinates may decide to quit their job if they are unable to work effectively under their current supervisor.

Q: Is it possible to have a successful working relationship with a less competent supervisor?

A: It is possible to have a successful working relationship with a less competent supervisor. However, this requires both the subordinate and the supervisor to be willing to work together to overcome the challenges. Subordinates need to be respectful and supportive, while supervisors need to be open to feedback and willing to delegate tasks to their subordinates.

Yachtmaster Exercises for Sail and Power: Questions and Answers for the RYA Yachtmaster Certificates of Competence

The Royal Yachting Association (RYA) Yachtmaster Certificates of Competence are highly regarded qualifications for experienced sailors and powerboaters. To obtain these certificates, candidates must pass a series of practical exercises, including

those related to sail and power handling. Here are some commonly asked questions and answers about these exercises:

Questions and Answers for Sail Exercises:

- **Question:** What is the purpose of a "Tack in Confined Waters" exercise?
- **Answer:** To demonstrate the candidate's ability to execute a tack in a restricted area while maintaining control of the boat.
- **Question:** What maneuvers are assessed in a "Mooring with Warps and Springs" exercise?
- **Answer:** The candidate must approach and moor the boat alongside a pontoon or jetty using warps and springs, ensuring the boat is securely fastened and protected from movement.
- **Question:** What is the difference between a "Departure from Mooring Sail" and a "Departure from Mooring Power"?
- **Answer:** In a Departure from Mooring Sail, the candidate uses the sails to maneuver the boat away from the mooring, while in a Departure from Mooring Power, the engine is used for propulsion.

Questions and Answers for Power Exercises:

- **Question:** What is the purpose of a "Close Quarters Maneuvering" exercise?
- **Answer:** To demonstrate the candidate's ability to control the boat in a confined area, executing precise turns and maneuvers while maintaining a safe distance from other vessels.

- **Question:** What is the significance of "Engine Checks" in a power exercise?
- **Answer:** Engine Checks involve inspecting and testing the boat's engine to ensure its smooth operation and identify any potential issues.
- **Question:** What maneuvers are assessed in a "Man Overboard Recovery" exercise?
- **Answer:** The candidate must execute a series of maneuvers to retrieve a person who has fallen overboard, including maneuvering the boat alongside the casualty, deploying a recovery device, and returning the casualty safely aboard.

The Complete Illustrated History of the Aztec Maya: An Epic Exploration of Ancient Central America and Mexico

This comprehensive volume chronicles the rise and fall of the enigmatic Aztec and Maya civilizations, providing an in-depth look into their rich history, vibrant cultures, and lasting legacies. With stunning illustrations, detailed maps, and authoritative text, this book offers a comprehensive exploration of these ancient peoples.

Q: Who were the Aztecs and Mayas? A: The Aztecs were a Nahuatl-speaking people who dominated central Mexico from the 14th to 16th centuries. The Mayas, on the other hand, were a series of independent city-states that flourished in Mesoamerica from around 2000 BC to 900 AD.

Q: What were their major achievements? A: The Aztecs were renowned for their complex political system, sophisticated architecture, and advanced mathematics. The Mayas were known for their extraordinary advancements in astronomy, mathematics, and hieroglyphic writing.

Q: How did they interact with each other? A: Although their timelines overlapped, the Aztecs and Mayas lived in different regions and had limited direct interaction. However, there were some cultural exchanges, particularly in the areas of trade and religion.

Q: What caused their decline? A: The Aztec Empire was conquered by the Spanish in the 16th century, while the Maya civilization collapsed around 900 AD due to a combination of factors, including environmental changes, warfare, and internal strife.

Q: What is their legacy today? A: Despite their eventual demise, the Aztecs and Mayas continue to fascinate and inspire people worldwide. Their rich cultural heritage, stunning artwork, and enduring influence are celebrated and studied today in various fields, including archaeology, history, and art.

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