

AP[®] STATISTICS
2006 SCORING GUIDELINES (Form B)

Question 4

Intent of Question

The primary goal of this question is to assess a student's ability to conduct a test of significance by stating the hypotheses of interest, checking the necessary conditions, calculating the test statistic and p -value, and making a conclusion in context.

Solution

Step 1: States a correct pair of hypotheses.

Let μ_D denote the mean difference (after – before) in dexterity scores for the population of individuals enrolled in the program.

$H_0 : \mu_D = 0$ versus $H_a : \mu_D > 0$

Step 2: Identifies a correct test (by name or formula) and checks appropriate conditions.

One sample t -test or paired t -test or $t = \frac{\bar{x}_D}{s_D/\sqrt{n}}$.

We are told that the 12 people are a random sample. Assume that the differences (after – before) are approximately normal. This check may be done with a histogram, dotplot, stem-and-leaf display, or normal probability plot. The student should note that the normal assumption is not unreasonable because the plot displays no obvious skewness or outliers.

Step 3: Correct mechanics, including the value of the test statistic and the p -value (or rejection region).

$\bar{x}_D = 0.375, s_D = 0.367$

Degrees of freedom = $12 - 1 = 11$

$$t = \frac{0.375}{\frac{0.367}{\sqrt{12}}} = 3.54$$

p -value = 0.002

Step 4: States a correct conclusion in the context of the problem.

Since the p -value is less than 0.05, we can reject the null hypothesis of no difference in favor of the alternative and conclude that, on average, people who completed the program have significantly increased manual dexterity.

Scoring

Each of the four steps is scored as essentially correct (E) or incorrect (I).

Ap Statistics 2000 Scoring Guidelines

Sasha Hu



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guidance to the efforts of new generations of researchers and practitioners Edited by Robert Brennan and jointly sponsored by the American Council on Education ACE and the National Council on Measurement in Education the fourth edition provides in depth treatments of critical measurement topics and the chapter authors are acknowledged experts in their respective fields Educational measurement researchers and practitioners will find this text essential and those interested in statistics psychology business and economics should also find this work to be of very strong interest Topics covered are divided into three subject areas theory and general principles construction administration and scoring and applications The first part of the book covers the topics of validation reliability item response theory scaling and norming linking and equating test fairness and cognitive psychology Part two includes chapters on test development test administration performance assessment setting performance standards and technology in testing The final section includes chapters on second language testing testing for accountability in K 12 schools standardized assessment of individual achievement in K 12 schools higher education admissions testing monitoring educational progress licensure and certification testing and legal and ethical issues

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important aspect of cardiac CT from acquisition to interpretation This unique guide translates complex concepts and topics into understandable relevant subject matter and includes contributions from international leaders in cardiac CT Designed for the practical day to day application of cardiac CT the text also serves as a comprehensive visual resource more than 1000 laser precise images and illustrations all of which reflect the latest clinical acumen and cardiac imaging technology

FEATURES Focuses on the recognition identification and comprehension of heart and coronary circulatory pathology Valuable to clinicians at any experience level Logical 4 part organization consists of Technology section that encompasses coronary CT angiography technique radiation concepts and successful application of radiation dose reduction tools plus a detailed review of strategies for overcoming suboptimal examinations complete with case examples Coronary Arteries section that thoroughly examines plaque detection and characterization stenosis assessment stents and bypass grafts and assessment of coronary artery anomalies Beyond the Coronary Arteries details cardiac CT anatomy myocardial pericardial and valvular pathology electrophysiology applications and congenital heart disease in both pediatric and adult populations Controversial topics focuses on the utilization of cardiac CT in the acute setting institution of the triple rule out protocol and anatomic versus physiologic imaging with Rubidium PET CT Helpful pedagogy includes numerous tables diagrams figures and illustrations

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Table of Contents Ap Statistics 2000 Scoring Guidelines

1. Understanding the eBook Ap Statistics 2000 Scoring Guidelines
 - The Rise of Digital Reading Ap Statistics 2000 Scoring Guidelines
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Statistics 2000 Scoring Guidelines
 - 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 Ap Statistics 2000 Scoring Guidelines
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Statistics 2000 Scoring Guidelines
 - Personalized Recommendations
 - Ap Statistics 2000 Scoring Guidelines User Reviews and Ratings
 - Ap Statistics 2000 Scoring Guidelines and Bestseller Lists
5. Accessing Ap Statistics 2000 Scoring Guidelines Free and Paid eBooks

- Ap Statistics 2000 Scoring Guidelines Public Domain eBooks
 - Ap Statistics 2000 Scoring Guidelines eBook Subscription Services
 - Ap Statistics 2000 Scoring Guidelines Budget-Friendly Options
6. Navigating Ap Statistics 2000 Scoring Guidelines eBook Formats
- ePub, PDF, MOBI, and More
 - Ap Statistics 2000 Scoring Guidelines Compatibility with Devices
 - Ap Statistics 2000 Scoring Guidelines Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Ap Statistics 2000 Scoring Guidelines
 - Highlighting and Note-Taking Ap Statistics 2000 Scoring Guidelines
 - Interactive Elements Ap Statistics 2000 Scoring Guidelines
8. Staying Engaged with Ap Statistics 2000 Scoring Guidelines
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Statistics 2000 Scoring Guidelines
9. Balancing eBooks and Physical Books Ap Statistics 2000 Scoring Guidelines
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Statistics 2000 Scoring Guidelines
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ap Statistics 2000 Scoring Guidelines
- Setting Reading Goals Ap Statistics 2000 Scoring Guidelines
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ap Statistics 2000 Scoring Guidelines
- Fact-Checking eBook Content of Ap Statistics 2000 Scoring Guidelines
 - 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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