

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.

$$H_0 : \mu_D = 0 \text{ versus } H_a : \mu_D > 0$$

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).

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

$$\text{Degrees of freedom} = 12 - 1 = 11$$

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

$$p\text{-value} = 0.002$$

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

Shasha Hu

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CliffsNotes AP U.S. Government and Politics with CD-ROM Paul Soifer,2010-09-27 A new edition jam packed with even more practice tests Parliamentary Debates (Hansard). Australia. Parliament. Senate, Apex AP Statistics Kaplan Educational Center Staff,Learning Apex,2001-05 This comprehensive guide for students preparing for the Apex AP Statistics test includes a full content review special practice assignments with self grading guidelines hundreds of practice questions with answer explanations and more Charts diagrams **The Classical Outlook** ,2000 **Educational Measurement** Robert L. Brennan,2023-10-03 Educational Measurement has been the bible in its field since the first edition was published by ACE in 1951 The importance of this fourth edition of Educational Measurement is to extensively update and extend the topics treated in the previous three editions As such the fourth edition documents progress in the field and provides critical

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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Law Reporter ,2001 **Krause's Food, Nutrition, & Diet Therapy** L. Kathleen Mahan,Sylvia Escott-Stump,2004 Krause s Food Nutrition Diet Therapy is a classic textbook in the field of nutrition and diet therapy providing a wealth of information on nutrition basics nutrition throughout the life cycle nutrition care nutrition for health and fitness and medical nutrition therapy Always up to date with the most current information available this outstanding resource recognizes the increasing importance of nutrition in achieving and maintaining optimal health and fitness and as a component of complete and effective healthcare It is universally recognized as an essential text for nutrition and diet therapy students and practicing registered dietitians It features extensive appendixes tables illustrations figures and clinical insight boxes that provide practical hands on information and clinical tools for use throughout a student s education and career **The Complete Guide To Cardiac**

CT (PB) Simeon Abramson,2011-12-07 Acquire a thorough understanding of cardiac imaging A Doody s Core Title for 2019 I believe radiologists cardiologists and clinicians as well as trainees will find The Complete Guide to Cardiac CT to be an indispensable tool for learning the subject matter It is practical in approach but is solidly grounded in evidence based medicine with a comprehensive review of the literature and timely references The textbook provides an ideal resource for the cardiac imager and serves as an exceptional reference tool for understanding the anatomy and disease processes of the heart and coronary circulatory systems Theresa C McLoud MD Dept of Radiology Massachusetts General Hospital and Professor of Radiology Harvard Medical School from the foreword Based on the popular review courses of educator and radiologist Dr Simeon Abramson The Complete Guide to Cardiac CT is a timely hands on learning tool one that will help you master every

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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