

Statistics Practice Questions

1. IIT Kanpur measures the time X spent by students in extracurricular activities each day. The variable X follows a continuous distribution with the following PDF:

$$f(x) = k(3 - x) \text{ for } 0 \leq x \leq 3$$
$$f(x) = 0 \text{ for } x < 0 \text{ and } x > 3$$

- I. Find the value of k and find the expression for cumulative distribution functions $F(x)$ for all possible ranges of x .
 - II. Find the mean and variance of X .
 - III. Find the first, second and third quartiles of X . You do not need to solve for the roots of the quadratic equations formed during each quartile calculation. Convert them into $ax^2 + bx + c = 0$ form where a , b , and c are integers.
2. A sample of size 25 is drawn from a normal population. The sample mean is 30, and the sample standard deviation is 5. Construct a 95% confidence interval for the population mean.
3. Given the dataset {4, 8, 6, 10, 12, 14, 16, 18, 20, 22}, what is the z-score of all the values using the percentile rank method?
4. A researcher measures employee performance scores after a new training program for a sample of 8 employees with the following scores: [78, 82, 88, 85, 91, 79, 84, 87]. The historical mean score is 80. At the 0.05 significance level, is the sample mean score significantly different from 80?
5. A college wants to test if the average study hours per week for its students is different from the national average of 15 hours. A random sample of 40 students showed an average study time of 16.5 hours with a standard deviation of 4 hours.
- Formulate the null and alternative hypotheses.
 - Conduct a hypothesis test at the 5% significance level.
 - Based on the result, should the college conclude that its student's study significantly more than the national average?

Given:

- Sample mean (\bar{x}) = 16.5
 - Population mean (μ) = 15
 - Standard deviation (s) = 4
 - Sample size (n) = 40
 - Significance level = 5%
6. Two academic programs at a university want to compare the average grades of their students. Program A has a sample of 25 students with an average grade of 78 and a standard deviation

Basic Practice Of Statistics 5th Edition Answers

Zhe Xu



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Research Unit 2 Research Process Unit 3 Research Problem and Hypothesis Unit 4 Review of Literature Unit 5 Theory and Conceptual Framework in Nursing Research Unit 6 Research Approaches and Designs Unit 7 Sample and Sampling Techniques Unit 8 Tools and Methods of Data Collection Unit 9 Plan for Data Analysis and Interpretation Unit 10 Dissemination Communication and Utilization of Research Findings PART B BIOSTATISTICS Unit 11 Introduction to Biostatistics Unit 12 Measures of Central Tendency Unit 13 Measures of Variability Unit 14 Normal Probability Distribution Unit 15 Measures of Relationship Unit 16 Inferential Statistics and Hypothesis Testing Unit 17 Application of Statistics in Health and Use of Computers for Data Analysis Glossary Appendices Index *El-Hi Textbooks & Serials in Print, 2005 ,2005*

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The Law Students' Journal John Indermaur, Charles Thwaites, 1888 *The British National Bibliography* Arthur James Wells, 2000 *Basic Laboratory Methods for Biotechnology* Lisa A. Seidman, Cynthia J. Moore, Jeanette Mowery, 2021-12-28 Basic Laboratory Methods for Biotechnology Third Edition is a versatile textbook that provides students with a solid foundation to pursue employment in the biotech industry and can later serve as a practical reference to ensure success at each stage in their career The authors focus on basic principles and methods while skillfully including recent innovations and industry trends throughout Fundamental laboratory skills are emphasized and boxed content provides step by step laboratory method instructions for ease of reference at any point in the students progress Worked through examples and practice problems and solutions assist student comprehension Coverage includes safety practices and instructions on using common laboratory instruments Key Features Provides a valuable reference for laboratory professionals at all stages of their careers Focuses on basic principles and methods to provide students with the knowledge needed to begin a career in the Biotechnology industry Describes fundamental laboratory skills Includes laboratory scenario based questions that require

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