

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

SA Dillow



Basic Practice Of Statistics 5th Edition Answers:

The Basic Practice of Statistics David S. Moore, 2010 This is a clear and innovative overview of statistics which emphasises major ideas essential skills and real life data The organisation and design has been improved for the fifth edition coverage of engaging real world topics has been increased and content has been updated to appeal to today's trends and research

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