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Assessment 5: PFA of Worksheet Set 2

STATISTICS WORKSHEET
Solutions

1. Using a goodness of fit, we can assess whether a set of obtained frequencies differ from a set of frequencies.
   Answer: d) Expected

2. Chisquare is used to analyze
   Answer: c) Frequencies

3. What is the mean of a Chi-Square distribution with 6 degrees of freedom?
   Answer: c) 6

Note: The mean (expected value) of a Chi-Square distribution is equal to its degrees of freedom. In this case, the question mentions a Chi-Square distribution with 6 degrees of freedom, so the mean is also 6.

For a Chi-Square distribution with k degrees of freedom, the mean is k.

4. Which of these distributions is used for a goodness of fit testing?
   Answer: b) Chi-squared distribution

5. Which of the following distributions is Continuous?
   Answer: c) F Distribution

6. A statement made about a population for testing purposes is called?
   Answer: b) Hypothesis

7. If the assumed hypothesis is tested for rejection considering it to be true is called?
   Answer: a) Null Hypothesis

8. If the Critical region is evenly distributed, then the test is referred to as?
   Answer: a) Two-tailed

9. Alternative Hypothesis is also called as?
   Answer: b) Research Hypothesis

10. In a Binomial Distribution, if 'n' is the number of trials and 'p' is the probability of success, then the mean value is given by:
Answer: a) np