AP Statistics Chapter 11.1 Outline

Chi-Square test for Goodness of Fit

Chi-square statistic -

Observed counts

Expected counts

Chi-square Distributions –

Conditions

The Chi-Square test for goodness of fit

AP Statistics Chapter 11.2 Outline

Inference for Two-Way Tables

Comparing Distributions of a Categorical Variable –

Chi-Square test for homogeneity

Stating the Hypothesis

Expected counts

Conditions for performing a Chi-square test for homogeneity

Chi-Square test for Independence

Stating the Hypothesis

Expected Counts

Conditions for performing the Chi-square test for Independence

Using Chi-Square Tests Wisely

11	State appropriate hypotheses and compute expected counts for a chi-square test for goodness of fit. Calculate the chi-square statistic, degrees of freedom, and p-value for a chi-square test for goodness of fit. Perform a chi-square test for goodness of fit. Conduct a follow-up analysis when the results of a chi-square test are statistically significant. Compare conditional distributions for data in a two-way table. State appropriate hypothesis and compute expected counts for a chi-square test based on data in a two-way table. Calculate the chi-square statistic, degrees of freedom, and P-value for a chi-square test based on data in a two-way table. Perform a chi-square test for homogeneity. Perform a chi-square test for independence. Choose the appropriate chi-square test.	11.1) 1, 3, 5, 7, 8, 9, 12, 13, 16, 19 11.2) 27, 29, 31, 34, 35, 37, 38, 39, 45, 47, 50 **Spiral Review: R3.2, T4.10, T7.4, R8.4, T9.11** Practice Test Test