

## 2013-2014 AP Statistics Assignments

(see web site for reading guides, glossaries of important terms, notes, HW answers, and other goodies)

**TIP: Chapter 11 will be a very good review of graphing. Remember CUSS and BS.**

Chapter	Day	Topics	Objectives: Students will be able to...	Homework	Reading	5/6O	1/2B
11	1	11.1 The Chi-Square Goodness-of-Fit Test  <b>11.1 M&amp;M Activity</b>  <i>Technology: Chi-Square Goodness-of-Fit Tests on the Calculator</i>	<ul style="list-style-type: none"> <li>· Know how to compute expected counts, conditional distributions, and contributions to the chi-square statistic.</li> <li>· Check the Random, Large sample size, and Independent conditions before performing a chi-square test.</li> <li>· Use a chi-square goodness-of-fit test to determine whether sample data are consistent with a specified distribution of a categorical variable.</li> <li>· Examine individual components of the chi-square statistic as part of a follow-up analysis.</li> </ul>	1, 3, 5, 7, 9, 11, 15, 25	Section 10.2 pgs 696- 702	3-Apr	4-Apr
11	2	11.2 Chi-Square Test for Homogeneity  <i>11.2a Activity - Chi-Square Test for Homogeneity</i>	<ul style="list-style-type: none"> <li>· Check the Random, Large sample size, and Independent conditions before performing a chi-square test.</li> <li>· Use a chi-square test for homogeneity to determine whether the distribution of a categorical variable differs for several populations or treatments.</li> <li>· Interpret computer output for a chi-square test based on a two-way table.</li> <li>· Examine individual components of the chi-square statistic as part of a follow-up analysis.</li> </ul> <p style="color: green; margin-top: 5px;"><u>TBD: Show that the two sample z- test for comparing two proportions and the chi-square test for a 2 by 2 two-way table give equivalent results. Question #43.</u></p>	27, 29, 31, 33, 35, <del>43</del>  <b>and Complete Class Handout</b>	Section 10.2 pgs 703- 724	7-Apr	8-Apr
11	3	11.2 The Chi-Square Test of Association/Independence  <i>11.2b Activity - Chi-Square Test of Independence</i>	<ul style="list-style-type: none"> <li>· Check the Random, Large sample size, and Independent conditions before performing a chi-square test.</li> <li>· Use a chi-square test of association/independence to determine whether there is convincing evidence of an association between two categorical variables.</li> <li>· Interpret computer output for a chi-square test based on a two-way table.</li> <li>· Examine individual components of the chi-square statistic as part of a follow-up analysis.</li> </ul>	45, 49, 51  <b>and Complete Class Handout</b>		9-Apr	10-Apr
11	4	Chapter 11 Review <i>Activity: MC Practice Test and Frappy's</i>	<ul style="list-style-type: none"> <li>· Distinguish between the three types of chi-square tests.</li> </ul>	<b>Complete/ Grade FRQ's</b>		11-Apr	14-Apr
11	5	<b>Chapter 11 Test</b>		<b>Section 12.1 Read and take notes</b>		<b>15-Apr</b>	<b>16-Apr</b>