**CHAPTER 11 – Chi Square Tests**

**Homework**

(for help, check out glausermath.weebly.com)

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| 24 Monday | 25 Tuesday | 26 Wednesday  *11.1a*  #1, 3, 5  M&M Activity | 27 Thursday  *11.1b*  #7, 12, 19-22 | 28 Friday  *11.2a*  #33, 35, 37, 39  **POW #16 DUE** |
| 31  *11.2b*  #45, 49, 51, 53-58  **POW #17 assigned** | 1 APRIL  *Review Ch. 11*  **Test 10 Corrections Due** | 2  **CH. 11 TEST** | 3 | 4  **POW #17 DUE** |

**Chapter Objectives**

* Understand **chi-square distributions** and p-values
* Find **expected counts**, the chi-square statistic, and degrees of freedom
* Check conditions for chi-square tests
* Conduct a **chi-square goodness of fit test** to determine whether sample data are consistent with a specified distribution of a categorical variable.
* Conduct a **chi-square test for homogeneity** to determine whether the distribution of a categorical variable differs for several populations or treatments.
* Conduct a **chi-square test for association/independence** to determine whether there is convincing evidence of an association between two categorical variables.
* Interpret computer output for a chi-square test based on a two-way table.
* Examine the individual components of the chi-square statistic as part of a follow-up analysis.
* Distinguish between the 3 types of chi-square tests.