

Stat 101 HW#1 Due Thursday Sept. 11, 2008

Questions 1-4 involve the data set Ch03_Movies_Genre_Ratings.jmp

1. Make bar charts of both *Genre* and *Ratings*. Give a brief summary of what you see
2. Make pie charts of both variables. (Go to **Graphs**→**Chart** and put in the variable and select N under the Statistics dialog. Also in the lower left you'll see a way to switch from Bar Chart to Pie Chart). Which works better the Bar chart or the Pie Chart for these data?
3. Go to **Analyze**→**Fit Y by X** and use *Genre* as *X* and *Ratings* as *Y*. Do all *Genre* have the same distribution of *Ratings*? Write a few sentences highlighting the differences.
4. Ex 3.24

Question 5 involves the data set Ch03_Tattoos.jmp

5. Ex 3.42

Questions 6-10 involve the data set Survey.jmp on Blackboard

6. Report on how many drinks Stat 101 had the night before completing the survey. Use appropriate graphics and summaries.
7. Does belief in God vary by whether you are Male or Female? Explain.
8. Does it vary by what class you are in? Explain. You may want to order the classes here. To do that click on *Your Class* and get to the *Column Info*. Go to **Column Properties**, select **Value Ordering** and put the categories in the order you want.
9. Does it vary by who you support in the presidential election. Explain.
10. Pick another pair of categorical variables and explore their relationship. Give a brief write up.