Chapter 10.a - Intro to Re-expressing Data

1) Quick Review of Pg. 214c
2) Half-Quiz 9 - be careful!
3) After Quiz Reading - Part of Assignment :)
4) Notes: Purpose of Re-expressing data
5) Assignment Time

Pg. 214, #15-17, 29, 31, 33
Why a Re-expression?

- if you produce a model, and see a "pattern" in the residuals/deviations, then you may want to re-express the data in order to...

(uni) Goal 1: Make the distribution of a variable more symmetric
- remember, symmetric and unimodal can be modeled as Normal

(uni) Goal 2: Make the spread of several groups more alike
- centers may still be different
- allows for better comparison between groups

Why a Re-expression?

- if you produce a model, and see a "pattern" in the residuals/deviations, then you may want to re-express the data in order to...

(bi) Goal 3: Make the form of a scatter plot more linear
- re-expressing to fit the "straight enough" condition
- allows a linear model of the re-expressed data to be appropriate

(bi) Goal 4: Make the "spread" in a scatterplot more "even"
- an even scatter is important for appropriate statistical analysis
Assignment (Due Monday, 11/2)

1) Read Chapter 10
   - read p. 222-224
   - read p. 224-226

2) Pg. 239, #1, 2, 4, 5, 7