

## Mouse Drug Test Analysis

### Observations:

- The correlation between tumor volume and mouse weight is 0.82, which is a fairly strong relationship. Looking at the regression equation plotted over the scatter plot, one can clearly see this relationship as the three heaviest mice had the three largest tumors. It is safe to assume that unneeded/added weight is unhealthy for a mouse to bear, which we could extrapolate to humans and many other animals.
- The gender ratio is nearly 1:1 which means we can say with confidence the results that are yielded have no particular affinity to either gender. This means more people can be confidently treated with the help of this research.
- By looking at the box plots one would assume Ramipril and Capomulin were the more successful drug regimens. The summary table that compares means between regimens confirms this, as they have the two lowest mean tumor volumes. It would be encouraged to pursue further testing with these two drugs.