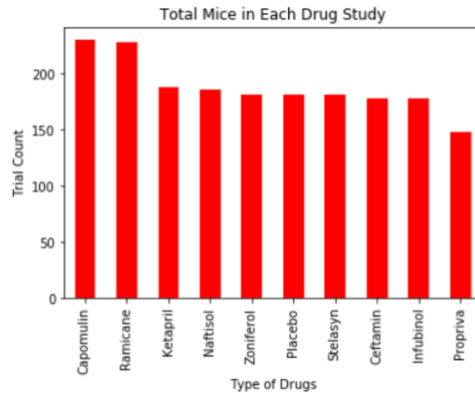


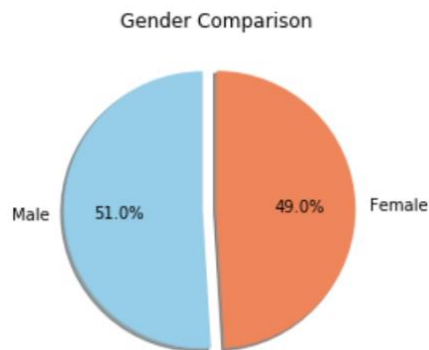
Summary of the Results:

- According to the data, there are over 100 trials conducted for each drug regimen. Usually, when working with multiple variables then there should be minimum sample size of 30 or more and in this data set all the drug treatments have at least 100 trials/ data points which shows that data is statistically significant.

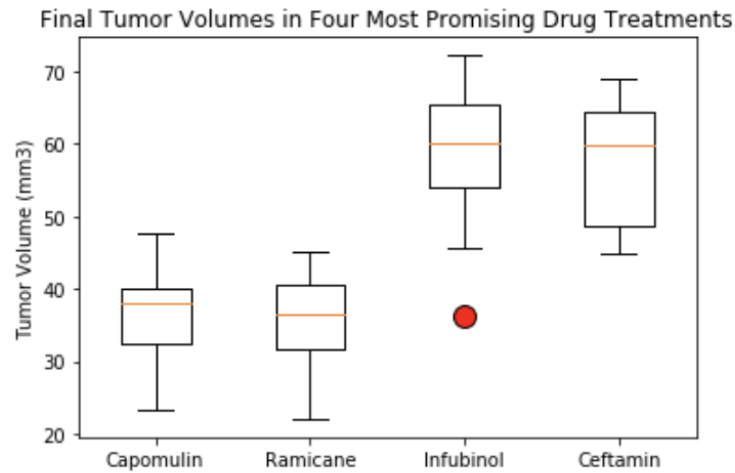
Sample size resource: <https://www.statisticssolutions.com/sample-size-formula/#:~:text=Some%20researchers%20do%2C%20however%2C%20support,minimum%20sample%20size%20of%2030.>



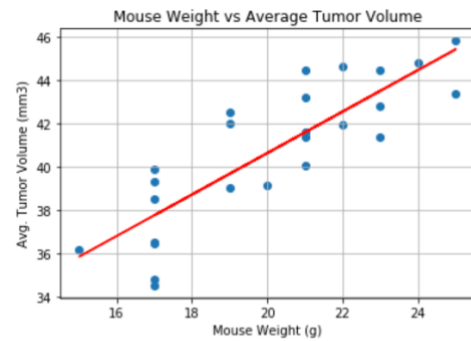
- The study has also revealed that it has almost equal male and female mice. It would be interesting to analyze if gender had an effect on the efficacy of the drug treatments or tumor volume.



- Based on the analysis of the final Tumor Volumes in four most promising drug regimens; Capomulin and Ramipril both appear to be effective than the other two drug regimens. Infubinol drug was the only drug that had the outlier point in the data while the other three drugs' data was well within the range.



- In the study, mouse weight correlated strongly with average tumor volume as the r^2 value is 0.84 which shows that the data points fall well within regression line.



The r-squared value is 0.8419363424694718
 The equation of regression line is $y = 0.95x + 21.55$