Analysis

1.       Capomulin is the most effective drug amongst the 4 drugs viz. Capomulin, Infubinol, Ketapril, and Placebo. Under the influence of Capomulin, the volume of the Tumor decreases by 19% on average over 45 days as compared to the other drugs where the volume of the Tumor increases by at least 46%. The worst among the lot is Ketapril, where the average increase in Tumor volume after 45 days is around 57%.

2.       The Tumor volume exhibits a linear relationship with time after administering each of the 4 drugs, with Capomulin causing a linear decay to the Tumor volume while the other drugs causing an increase in the Tumor volume.

3.       Under the influence of Placebo, metastatic sites increase the maximum until the 40th day post which it almost merges with the number of metastatic sites under the influence of Ketapril.

4.       Finally, the survival rate is the best under the influence of Capomulin. The survival rate changes with time for the other 3 drugs. After 35th day, survival rate under Infubinol becomes the worst.