

Analytics Foundations: Problem Set 2

1. You've been asked to explore differences between rates of death from Covid in the east vs. the west. You download some data (*covidPerCapita*) from the CDC that has Covid death rates per capita (**coviddata**) by zip code (**zip**). Not all zip codes are reporting, and even handling the data from those that *do* report is difficult so you select a random sample of zip codes in the east and the west.
 - a. Take a look at the distributions of death from Covid within each region. What do you see? Would you assume approximate Normality? Equal variances?
 - b. Conduct the correct test to see if there is a significant difference in per capita deaths from Covid in the east **region** vs the west **region**. Discuss assumptions and why you chose the method you did.
 - c. Write out the hypothesis test (include null and alternative hypothesis, test statistic, p-value and conclusion....conclusion should be in terms of the problem).
 - d. Can you conclude from this analysis that individuals in one region have had higher death rates than individuals in the other region? Why or why not?