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Week 8 Lecture Assignment

ECO 634

Frequentist Concepts

Q1: The answer is [1] 0.421875. The R code I used to find this answer is dbinom(3, 4, 0.75).

Q2: The answer is [1] 0.6835937. The R code I used to find this answer is pbinom(3, 4, 0.75).

Q3: The answer is [1] 0.6835937. The R code I used to find this answer is pbinom(3, 4, 0.75).

Q4: The answer is [1] 0.3085375. The R code I used to find this answer is pnorm(1,2, 2, 2).

Q5: The answer is [1] 0.3085375. The R code I used to find this answer is pnorm(1,2, 2, 2).

Q6: The answer is [1] 0.1586553. The R code I used to find this answer is pnorm(1.2, 3.2, 2, 2).

Q7: The change is the shape of the histogram is very slight. This is because I am calculating the mean for one individual point.

Q8: As the sample size increases as well as the number of times sampled, the data looks less like the original graph, because you have a larger sample size and are calculating the mean for a larger number of points.

Q9: Many points are sampled so the graph looks somewhat different from the parent graph, depending on how many simulations are run.

Q10: There is such a drastic change because with a sample size of one, you are only calculating the mean for one point. With the sample size of two there are more points.

Q11: The two main factors that determine the width of the mean are standard deviation and sample size.

Q12: There are a possibility of 15,000 three-character words. If you cube 25 you get 15,625 then you subtract 625 from the two-character words and get 15,000.

Q13: B = 1,348,080