Discussion Questions Chapter 12

1. Thomas asked Aleen, “What is a sampling distribution?” Aleen said, “This is the sample of samples or the mean of the means. You obtain a sample from the population, compute the mean, put the sample back and repeat the same procedure many times. Afterwards, you get a distribution of many samples and that is the sampling distribution. You also get the mean of many sample means.” Is she right? Why or why not?
2. The sampling distribution is a bridge between the sample and the population. What does it mean?
3. The sampling distribution of the mean gets more normally distributed as the sample size increases. Explain why this is useful for inference when using a statistical test.