Session 5: Sampling Distributions Exercises

- What is the probability that a random sample (n=49) from a population of Seattle sixth graders has a mean between 4 and 6 days?
 Population parameters of Seattle sixth graders: [= 5.4 days, [= 2.8 days.
- Suppose that a sample of n=45 second time mothers is taken rather than n=30 in the example on slide 20. The sample mean pregnancy length is the same, 279.5 days and the true standard deviation is 6 days. Calculate the 2-sided 95%CI for this sample.
- 3. How does the CI calculated in 2) compare to the 95%CI for the sample of n=30 (277.35, 281.65)?