

Chapter 7 Learning Objectives	Section	Related Example on Page(s)	Relevant Chapter Review Exercise(s)	Can I do this?
Distinguish between a parameter and a statistic.	7.1	425	R7.1	
Use the sampling distribution of a statistic to evaluate a claim about a parameter.	7.1	427	R7.5, R7.7	
Distinguish among the distribution of a population, the distribution of a sample, and the sampling distribution of a statistic.	7.1	Discussion on 428	R7.2	
Determine whether or not a statistic is an unbiased estimator of a population parameter.	7.1	Discussion on 430–431; 435	R7.3	
Describe the relationship between sample size and the variability of a statistic.	7.1	432	R7.3	
Find the mean and standard deviation of the sampling distribution of a sample proportion \hat{p} . Check the 10% condition before calculating $\sigma_{\hat{p}}$.	7.2	445	R7.4	
Determine if the sampling distribution of \hat{p} is approximately Normal.	7.2	445	R7.4	
If appropriate, use a Normal distribution to calculate probabilities involving \hat{p} .	7.2	445	R7.4, R7.5	
Find the mean and standard deviation of the sampling distribution of a sample mean \bar{x} . Check the 10% condition before calculating $\sigma_{\bar{x}}$.	7.3	452	R7.6	
Explain how the shape of the sampling distribution of \bar{x} is affected by the shape of the population distribution and the sample size.	7.3	457	R7.6, R7.7	
If appropriate, use a Normal distribution to calculate probabilities involving \bar{x} .	7.3	455, 459	R7.6, R7.7	