Chapter 9 Learning Objectives	Section	Related Example on Page(s)	Relevant Chapter Review Exercise(s)	Can I do this?
State the null and alternative hypotheses for a significance test about a population parameter.	9.1	540	R9.1	
Interpret a *P*-value in context.	9.1	543, 544	R9.5	
Determine if the results of a study are statistically significant and draw an appropriate conclusion using a significance level.	9.1	546	R9.5	
Interpret a Type I and a Type II error in context, and give a consequence of each.	9.1	548	R9.3, R9.4	
State and check the Random, 10%, and Large Counts conditions for performing a significance test about a population proportion.	9.2	555	R9.4	
Perform a significance test about a population proportion.	9.2	559, 562	R9.4	
Interpret the power of a test and describe what factors affect the power of a test.	9.2	565, discussion on 568	R9.3	
Describe the relationship among the probability of a Type I error (significance level), the probability of a Type II error, and the power of a test.	9.2	565	R9.3	
State and check the Random, 10%, and Normal/Large Sample conditions for performing a significance test about a population mean.	9.3	575	R9.2, R9.6, R9.7	
Perform a significance test about a population mean.	9.3	580, 583	R9.6	
Use a confidence interval to draw a conclusion for a two-sided test about a population parameter.	9.2, 9.3	563, 585	R9.5, R9.6	
Perform a significance test about a mean difference using paired data.	9.3	586	R9.7	