

<b>Chapter 8 Learning Objectives</b>	<b>Section</b>	<b>Related Example on Page(s)</b>	<b>Relevant Chapter Review Exercise(s)</b>	<b>Can I do this?</b>
Determine the point estimate and margin of error from a confidence interval.	8.1	481	R8.2	
Interpret a confidence interval in context.	8.1	481, 484	R8.3, R8.4, R8.6, R8.7	
Interpret a confidence level in context.	8.1	484	R8.2	
Describe how the sample size and confidence level affect the length of a confidence interval.	8.1	Discussion on 487	R8.9	
Explain how practical issues like nonresponse, undercoverage, and response bias can affect the interpretation of a confidence interval.	8.1	Discussion on 488	R8.6	
State and check the Random, 10%, and Large Counts conditions for constructing a confidence interval for a population proportion.	8.2	494	R8.3	
Determine critical values for calculating a $C\%$ confidence interval for a population proportion using a table or technology.	8.2	497	R8.1	
Construct and interpret a confidence interval for a population proportion.	8.2	498, 500	R8.3, R8.6	
Determine the sample size required to obtain a $C\%$ confidence interval for a population proportion with a specified margin of error.	8.2	502	R8.5	
State and check the Random, 10%, and Normal/Large Sample conditions for constructing a confidence interval for a population mean.	8.3	516	R8.4	
Explain how the $t$ distributions are different from the standard Normal distribution and why it is necessary to use a $t$ distribution when calculating a confidence interval for a population mean.	8.3	Discussion on 511–512	R8.10	
Determine critical values for calculating a $C\%$ confidence interval for a population mean using a table or technology.	8.3	513	R8.1	
Construct and interpret a confidence interval for a population mean.	8.3	519	R8.4, R8.7	
Determine the sample size required to obtain a $C\%$ confidence interval for a population mean with a specified margin of error.	8.3	524	R8.8	