

CHAPTER OVERVIEW

7: Confidence Intervals and Sample Size

In this chapter, you will learn to construct and interpret confidence intervals. You will also learn a new distribution, the Student's-t, and how it is used with these intervals. Throughout the chapter, it is important to keep in mind that the confidence interval is a random variable. It is the population parameter that is fixed.

[7.1: Confidence Intervals](#)

[7.2: Confidence Intervals for the Mean with Known Standard Deviation](#)

[7.3: Confidence Intervals for the Mean with Unknown Standard Deviation](#)

[7.4: Confidence Intervals and Sample Size for Proportions](#)

[7.5: Confidence Intervals \(Summary\)](#)

[7.E: Confidence Intervals \(Optional Exercises\)](#)

[7.E: Confidence Intervals for the Mean with Known Standard Deviation \(Optional Exercises\)](#)

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