

CHAPTER OVERVIEW

8: Confidence Intervals

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.

[8.1: Prelude to Confidence Intervals](#)

[8.2: A Single Population Mean using the Normal Distribution](#)

[A Single Population Mean using the Normal Distribution \(Exercises\)](#)

[8.3: A Single Population Mean using the Student t-Distribution](#)

[8.4: A Population Proportion](#)

[8.5: Confidence Interval - Home Costs \(Worksheet\)](#)

[8.6: Confidence Interval -Place of Birth \(Worksheet\)](#)

[8.7: Confidence Interval -Women's Heights \(Worksheet\)](#)

[8.8: Confidence Intervals \(Exercises\)](#)

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

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