

Learning objectives

After studying this chapter and doing the exercises, you should be able to:

- 1** Construct and interpret confidence intervals and hypothesis tests for the difference between two population means, given independent samples from the two populations:
 - 1.1** When the standard deviations of the two populations are known.
 - 1.2** When the standard deviations of the two populations are unknown.
- 2** Construct and interpret confidence intervals and hypothesis tests for the difference between two population means, given matched samples from the two populations.
- 3** Construct and interpret confidence intervals and hypothesis tests for the difference between two population proportions, given independent samples from the two populations.