

## **CHAPTER 10: Statistical Inference About Means and Proportions with Two Populations**

### **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.