LEARNING OBJECTIVES: You will

- Know how to find and use rates (including percentages) and understand when and why they are more useful than counts for describing and comparing groups
- Understand when it is possible to infer a cause-and-effect relationship.
- Explain how confounding variables prevent us from inferring causation, and suggest confounding variables that are likely to occur in some situations.
- Be able to distinguish between observational studies and controlled experiments.

Read sections 1.3 and 1.4, pp. 10 -22 in the textbook or e-book

Do the 1.7 and 1.9 TRY THIS exercises on p. 12 and 1.19 on p. 14

Watch ActivStats video on p. 14, Treatments on Subjects

Do the TRY THIS 1.31 on p. 17

Know the four key features of a controlled experiment on p. 17. They are repeated on p. 19 as a “Key Point”

Watch the second ActivStats video on p. 17, Randomized Experiments

Watch the ActivStats video on p. 19, Blinding

Be able to explain what is meant when an experiment is double-blind.

Do the 1.39 TRY IT exercise on p. 22 and 1.41 on p. 23