Section 3.2 What’s Unusual? The Empirical Rule

Reading Guide

LEARNING OBJECTIVES: You will

- Be able to state the Empirical Rule
- Given a histogram, locate approximate boundary points within one, two, or three standard deviations of the mean
- Given a mean and standard deviation of a data set, use the Empirical Rule to decide if a given data point is unusual for that data set
- Explain what a z-score is and be able to calculate and interpret z-scores in context

Watch the ActivStats video/app on p. 88 if it will open on your computer.

Read carefully about the Empirical Rule on pp. 88-89. You need to memorize the Empirical Rule.

Study Example 7 on p. 89, then do the two Try This exercises on p. 90

Read about z-scores on pp. 91 – 93.

Watch the ActivStats video on p. 91

Do the two try-it exercises on p. 92