**Class Activities**

Chapter Six: The Normal Distribution

Activity #1 (Group)

Working in small groups, revisit the examples on Z scores presented in the chapter. Each group member can choose one example, work through the example, and explain the work to other group members in his or her own words. At the conclusion of this exercise, each member of the group should be adept at converting raw scores into Z scores and vice versa, finding the area under the normal curve under a variety of circumstances (e.g., finding the area between two z-scores), and using the normal table. As a group, determine which examples are the most difficult and focus on these.

Activity #2 (Group)

Figure 6.3 in the text graphically illustrates some important properties of the normal distribution. Working in small groups, develop a strategy that will help each group member commit these properties to memory. For example, the group could put together its own summary to promote memorization.



Activity #3 (Group or individual)

Working individually or in small groups, examine the normal table in the back of your text book. Choose 15 Z scores and plot each of the corresponding areas on a separate graph. Have each group member choose a graph and summarize what the graph is saying.

Activity #4 (Group or individual)

Pass out a sheet with three blank normal bell curves. Each bell curve drawing should have a mean and standard deviation written next to it. Have students work in small groups or individually to practice labeling the bell with the given statistics. A good example would be three bell curves for final exam grades in a statistics class where:

Class 1: mean=88.7%, SD=1.2

Class 2: mean=65.6%, SD=3.4

Class 3: mean=71.2%, SD=.75

Ask the students to select which class they would have wanted to be in and why.