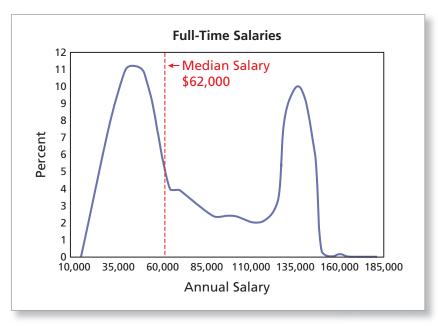
EXAMPLE 6

Analyzing Bimodal Distribution

9.3

The graph shows the distribution of the full-time salaries of 22,665 people who graduated from law school in 2006. How would you explain the bimodal distribution?



Employed graduates from the law school class of 2006 took the following types of jobs: private practice (55.8%), business (14.2%), other government (10.6%), judicial clerk (9.8%), public interest (5.4%), academic (1.7%), military (1.1%), and unknown (1.3%).

SOLUTION

According to the National Association for Law Placement (NALP), 71% of employed graduates from the class of 2006 took jobs at small firms (50 or fewer lawyers) or in nonfirm settings. Only 20% took jobs at large firms (more than 100 lawyers).

The bimodal distribution represents a cluster of lawyers at small and midsize firms earning between \$40,000 and \$50,000 and a cluster of lawyers at large firms earning between \$135,000 and \$145,000.



✓ Checkpoint



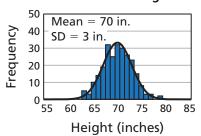
Suppose that you combine the data from the two data sets in Example 4 into one data set. What will the histogram look like? Explain how you can discover two (or more) subpopulations within a given larger population.

year. One of the recent rankings by *U.S. News and World Report* listed the following as the top five law schools in the United States (with full-time tuition).

Law schools are ranked each

- **1.** Yale University (\$50,750)
- 2. Harvard University (\$45,450)
- 3. Stanford University (\$46,581)
- 4. Columbia University (\$50,428)
- 5. University of Chicago (\$45,405)

Adult Male Heights



Adult Female Heights

