

Part 2

1. The standard deviation for the number of weeks 15 New York Times hardcover fiction books spent on their best-seller list is 6.17 weeks. The standard deviation for the 15 New York Times hardcover nonfiction list is 13.12 weeks. At $\alpha=0.10$, can we conclude that there is a difference in the variances?
2. A researcher claims that the variation in the salaries of elementary school teachers is greater than the variation in the salaries of secondary school teachers. A sample of the salaries of 30 elementary school teachers has a variance of \$8324, and a sample of the salaries of 30 secondary school teachers has a variance of \$2862. At $\alpha=0.05$, can the researcher conclude that the variance in the elementary school teachers' salaries is greater than the variation in the secondary school teachers' salaries?