

4. TECHNOLOGY CORNER

COMPUTING NUMERICAL SUMMARIES WITH TECHNOLOGY

TI-Nspire instructions in Appendix B; HP Prime instructions on the book's Web site.

Let's find numerical summaries for the travel times of North Carolina and New York workers from the previous Technology Corner (page 59). We'll start by showing you the necessary calculator techniques and then look at output from computer software.

I. One-variable statistics on the calculator If you haven't done so already, enter the North Carolina data in L1/list1 and the New York data in L2/list2.

1. Find the summary statistics for the North Carolina travel times.

TI-89

- Press **[F4]** (Calc); choose 1-Var Stats.
- Type list1 in the list box. Press **[ENTER]**.

1-Var Stats...	
Σ	=22.4667
Σx	=337.
Σx^2	=10819.
Σx	=15.2309
σx	=14.7145
n	=15.
MinX	=5.
Q1X	=10.
Enter=OK	

1-Var Stats...	
σx	=14.7145
n	=15.
MinX	=5.
Q1X	=10.
MedX	=20.
Q3X	=30.
MaxX	=60.
$\Sigma(x-\bar{x})^2$	=3247.73
Enter=OK	