CHAPTER

9

Hypothesis Testing: Chi-Square Tests and the One-Way Analysis of Variance (ANOVA)

calculator keys

Chi-Square Test

To enter a table of observed frequencies:

Press [**2nd**][x^{-1}][◀] and press [**ENTER**] to display the
MATRIX[**A**] screen.

- Type the number of rows, press [▶], type the number of
  columns, and press [▶].
- In the table-like entry area that appears, enter the
  observed frequency of each cell. (Press [**ENTER**] after
  each entry.)

When your data entry is completed, press [**2nd**][**MODE**].
Your table of observed frequencies is stored in the matrix
variable [**A**].

To perform a chi-square test:

Press [**STAT**][▶] (to display the **TESTS** menu) and select
C: χ^2-Test and press [**ENTER**] to display the χ^2-**Test** screen.
Verify that **Observed** is [**A**] and that **Expected** is [**B**]. Select
Calculate and press [**ENTER**].

calculator keys

One-Way ANOVA

Enter the data values of each group into separate list variables
(see Chapter 1). Then, press [**STAT**][◀] (to display the
TESTS menu) and select **H:ANOVA(** and press [**ENTER**] to
display the ANOVA function. Enter the names of the list vari-
ables you used, separated by commas, and press [**ENTER**].
ANOVA results appear over two screens. Press [▼] and [▲]
to scroll through the results.

(Note: In TI-83 series calculators, the ANOVA choice will be
labeled as **F:ANOVA(**.)