



25. TECHNOLOGY CORNER

FINDING P-VALUES FOR CHI-SQUARE TESTS ON THE CALCULATOR

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

To find the P -value in the M&M'S® example with your calculator, use the Chi-square Cdf on the TI-89 command. We ask for the area between $\chi^2 = 10.180$ and a very large number (we'll use 10,000) under the chi-square density curve with 5 degrees of freedom.

TI-89

- In the Stats/List Editor, Press **[F5]** (Distr) and choose Chi-square Cdf....
- In the dialog box, enter these values: Lower value: 10.18, Upper value: 10000, Deg of Freedom, df: 5, and then choose **[ENTER]**.



As the calculator screen shots show, this method gives a more precise P -value than Table C.