






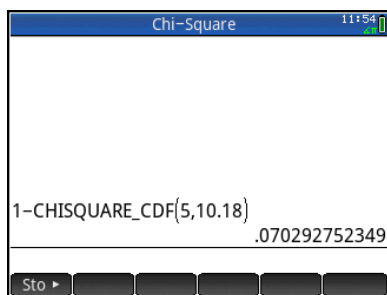


TECHNOLOGY CORNER

25. Finding p-values for X^2 tests on the HP Prime

To find the p value for the M&M'S® example, use the CHISQUARE_CDF command on the HP Prime . The syntax of the command is CHISQUARE_CDF(*degrees of freedom, value*) and it calculates the area to the left of the desired critical *value* of the X^2 distribution with the given *degrees of freedom*. Since this problem involves the area to the right, we will use 1-CHISQUARE_CDF(5, 10.18).

- Press  to go to the Home view
- Enter  
- Press , select **Math**, and tap *Probability* to open the Probability menu. Then tap *Cumulative* and select X^2
- Complete the command
1-CHISQUARE_CDF(5, 10.18) and press .



As the calculator screen shot shows, this method gives a more precise *P*-value than Table C.