









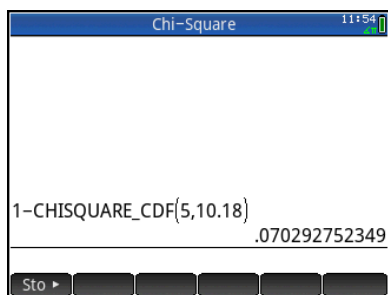
## TECHNOLOGY CORNER

### 25. Finding p-values for $\chi^2$ 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  $\chi^2$  distribution with the given *degrees of freedom*. Since this problem involves the area to the right, we will use  $1-\text{CHISQUARE\_CDF}(5, 10.18)$ .

- Press  to go to the Home view
- Enter   
- Press , select , and tap *Probability* to open the Probability menu. Then tap *Cumulative* and select  $\chi^2$
- Complete the command  $1-\text{CHISQUARE\_CDF}(5, 10.18)$  and press





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