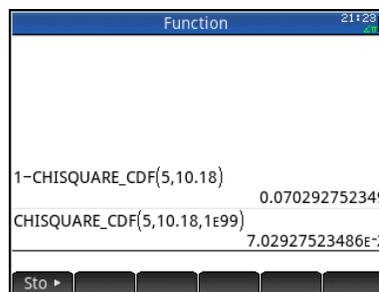


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25. Finding p-values for X^2 tests on HP Prime

To find the p value for the M&M'S® example, use the CHISQUARE_CDF command on 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 $1-\text{CHISQUARE_CDF}(5, 10.18)$.

- 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 $1-\text{CHISQUARE_CDF}(5, 10.18)$ and press .
- Also, entering CHISQUARE_CDF(5, 10.18, 1E99) produces the same answer.



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