

Objectives:

Inverse applet calculates a value that represents the location within a continuous distribution for a specific cumulative probability.

Functionality:

When the student presses **START**, the screen will display the message on the right.



To initiate a calculation, press the screen key labelled **OK**. The list box which appears can be used to choose continuous distribution: Normal, Student, Chi-square or Fisher. Press **VIEWS** to show this menu again at any time.



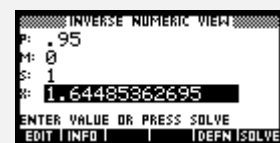
If you want quit, you must align the cursor with [Quit] and then press **OK**.



If you need Normal distribution, you must align the cursor with [X~NORMAL(M,S^2)] and then press **OK**.



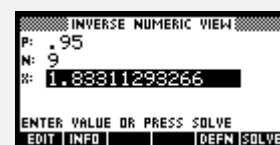
After setting all the parameters (population mean M, population standard deviation S and probability value P), align the cursor with [X] and then press **SOLVE** to perform the calculation. You try inverse cumulative normal distribution. Now press **VIEWS** to change distribution.



If you need Student distribution, you must align the cursor with [X~STUDENT(N)] and then press **OK**.



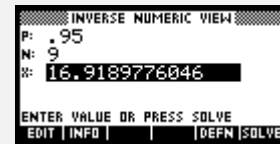
After setting all the parameters (degrees of freedom N and probability value P), align the cursor with [X] and then press **SOLVE** to perform the calculation. You try inverse cumulative Student distribution. Now press **VIEWS** to change distribution.



If you need Chi-square distribution, you must align the cursor with $[X \sim \text{CHI}^2(N)]$ and then press **OK**.



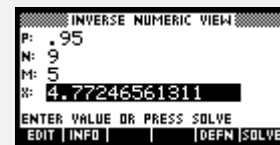
After setting all the parameters (degrees of freedom N and probability value P), align the cursor with $[X]$ and then press **SOLVE** to perform the calculation. You try inverse cumulative Chi-square distribution. Now press **VIEWS** to change distribution.



If you need Fisher distribution, you must align the cursor with $[X \sim \text{FISHER}(N, M)]$ and then press **OK**.



After setting all the parameters (numerator degrees of freedom N, denominator degrees of freedom M and probability value P), align the cursor with $[X]$ and then press **SOLVE** to perform the calculation. You try inverse cumulative Fisher distribution.



Note: This applet is based on Solve applet and it is very simple. If you want, you can send an e-mail at: fabiofrascati@supereva.it