

Inverse Normal Distribution Calculations.

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Select STAT mode from the main menu by using the arrow keys to highlight the STAT icon or by pressing 2.

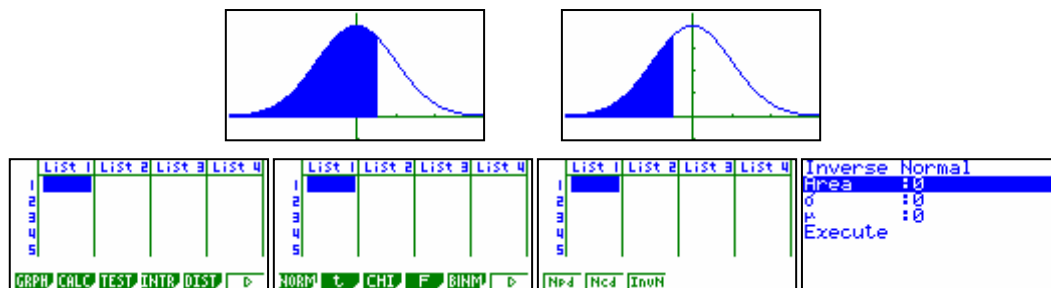


Relevant Background Information

The Graphics calculator can give you probability values from the Normal Distribution curve.

The calculator gives the z-score with the given probability (area) that a score will be less than t.

As shown in the diagrams below:



Entry from MAIN MENU

F5 for DIST

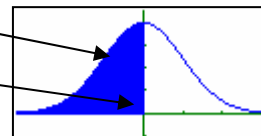
F1 for NORM

F3 for Inverse Normal Distribution

Example 1: Find the z-score where the probability is 0.5, the mean is 0 and standard deviation is 1.



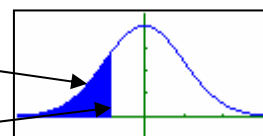
Answer: z-score = 0
That is: Probability = 0.5
z-score = 0



Example 2: Find the z-score where the probability is 0.2, the mean is 55 and standard deviation is 17.



Answer: z-score = 40.692
That is: Probability = 0.2
z-score = 40.692



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