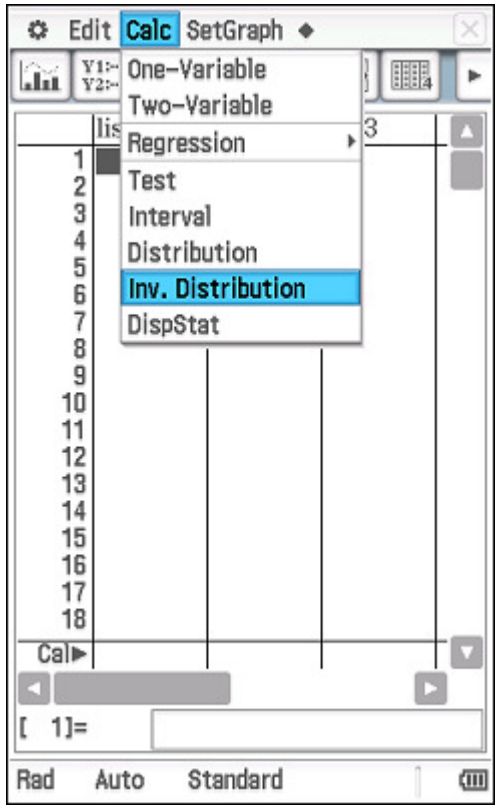
ClassPad II Help Series	Casio Education Australia - supporting Australian teachers	www.casio.edu.shriro.com.au	Author	Charlie Watson
CP471	Inverse Normal Probability Calculations		Date	April 2015
			CPII OS	02.00.2000.0000

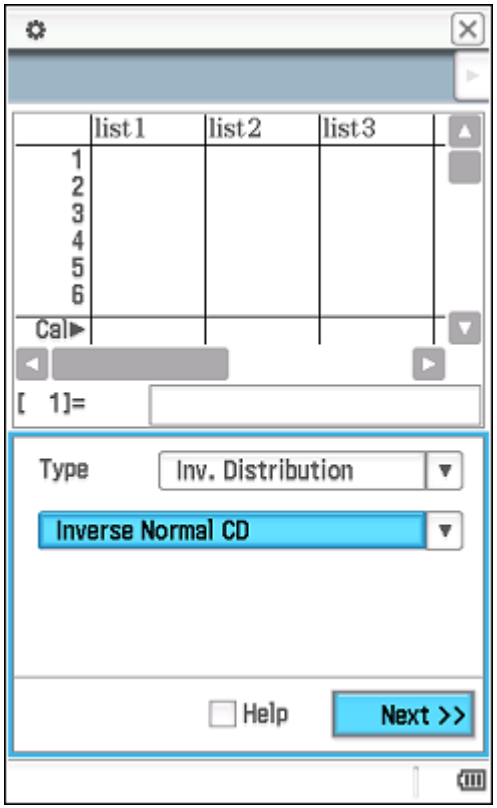
Assume we are working with a normal population of weights with mean 65kg and standard deviation of 12kg.

What is *w* so that $P(x \geq w) = 0.25$?

Tap **Calc, Inv. Distribution.**

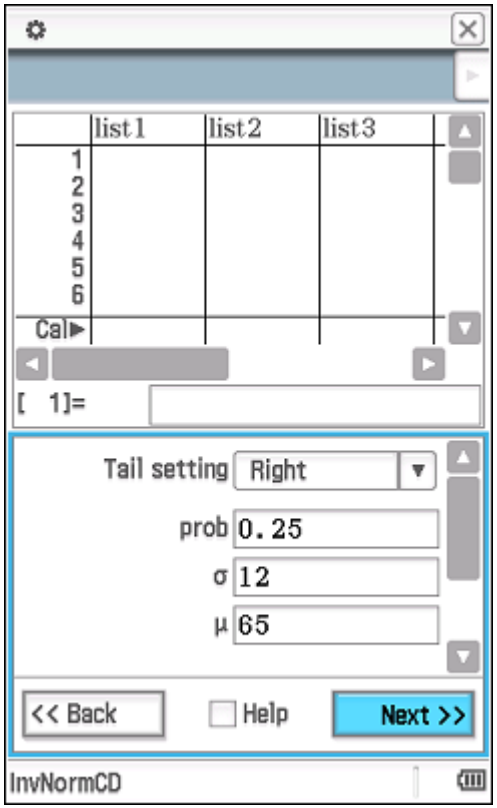


Check that **Inverse Normal CD** is selected.

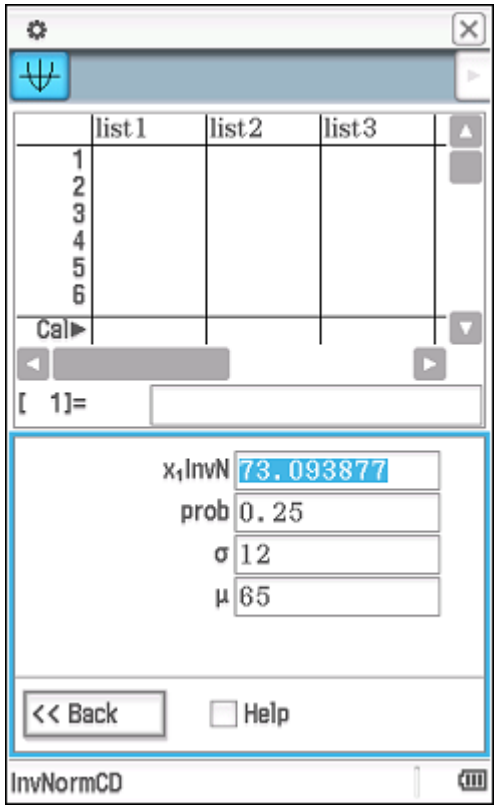


Adjust the tail setting to **Right**.

Enter the three required values as shown and then **Next**.



The required weight is close to 73.1kg.



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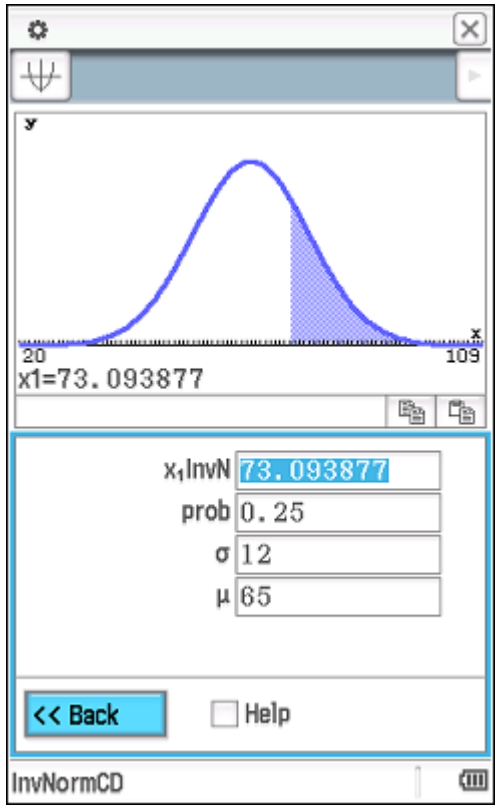
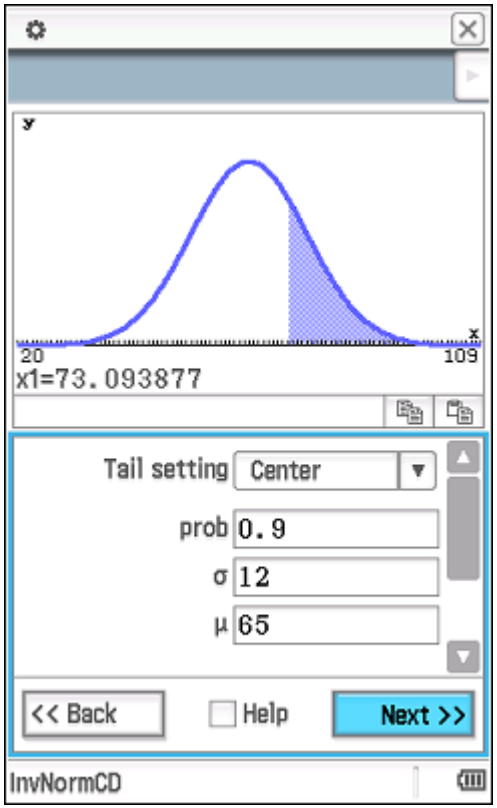
What is *w* so that 90% of weights lie within *w* kg of the mean?

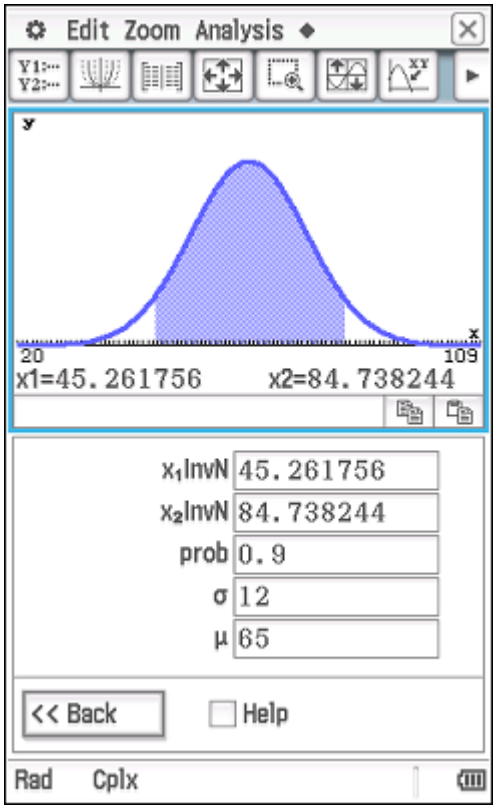
Tap Back.



Repeat the previous steps, only this time the tail setting is **Center**.



The lower and upper bounds of the middle 90% of weights are shown.



Subtract the lower bound from the mean to find w.