

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

What is the  $P(60 \leq x \leq 75)$  ?

The probability is just under 0.46.

Tap **Interactive**, **Distribution/Inv. Dist**, **Continuous**, **normCDF**.

If you prefer the Action menu, the order of variables can be seen from the expression that Classpad returns:

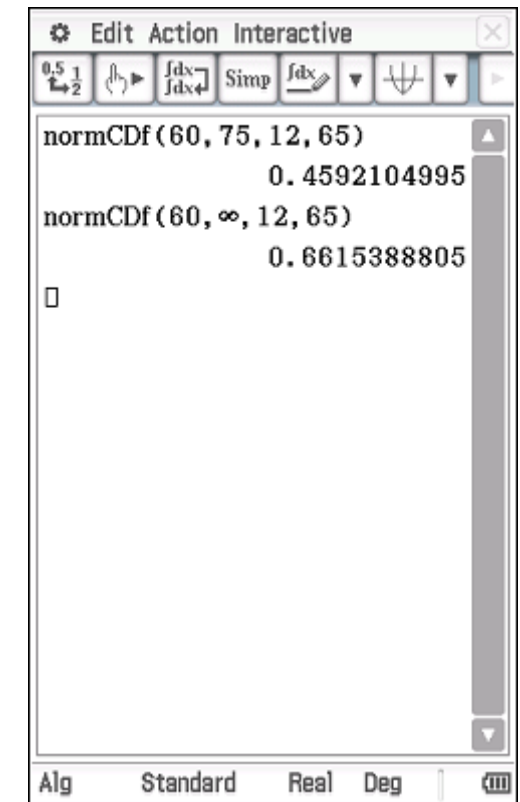
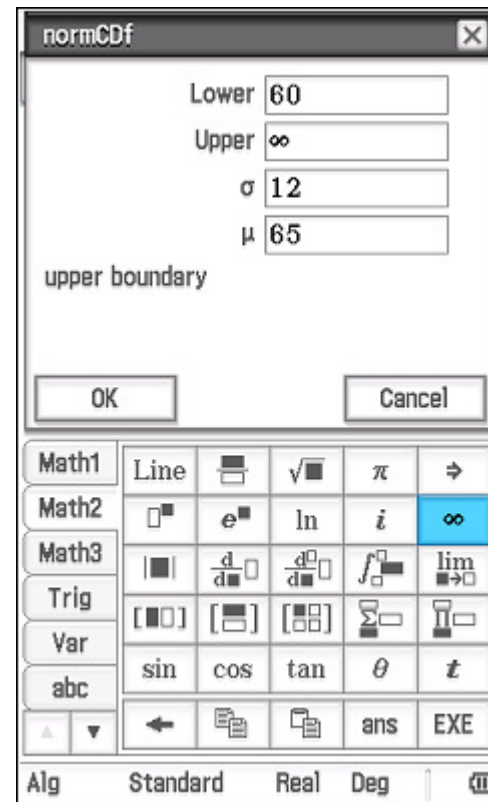
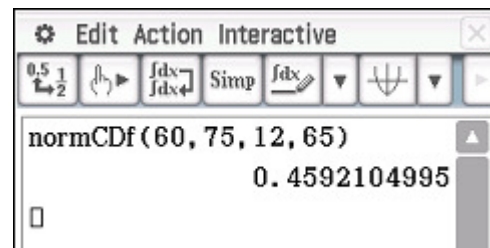
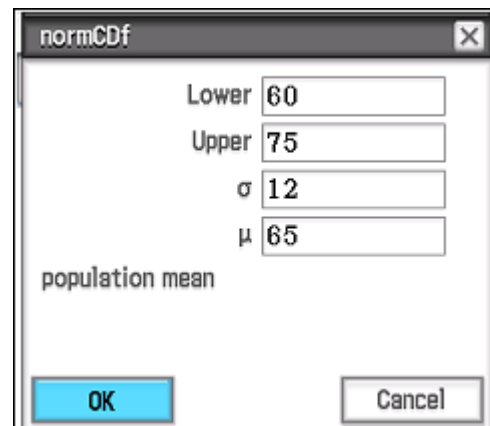
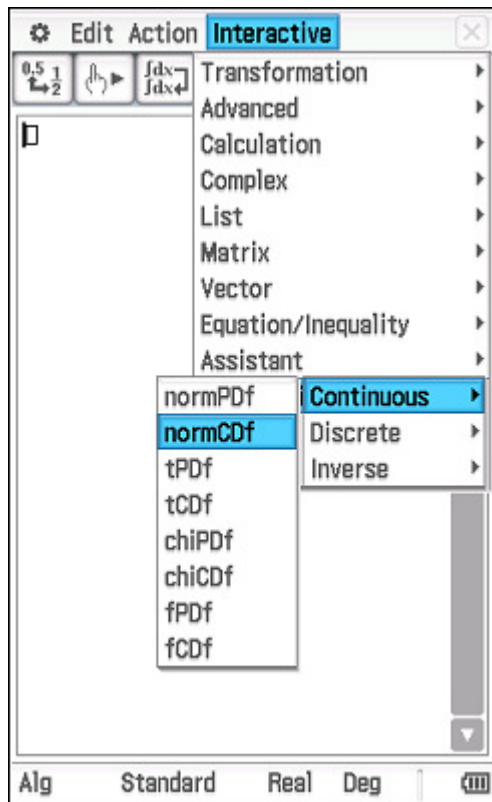
Enter the four required values as shown and then tap **OK**.

normCDF(Lower, Upper, SD, Mean)

What is the  $P(x \geq 60)$  ?

Repeat the previous steps. When entering the upper value use positive infinity – the  $\infty$  symbol from the **Math2** keyboard.

The probability is just over 0.66.



Check that you agree with the result shown for the  $P(x \leq 75)$ .

*Hint: Enter  $-\infty$  for the lower value.*

Normal probabilities can also be calculated in the Stats app and also using the normCDF function in a solve strip within an eActivity.

These are explained in other help sheets. Please refer to the menu.

