

Pointers – Reverse Normal Sections 7.1 & 7.2

These two sections also deal with problems I call **reverse normal problems**.

In these problems you will be given a mean and standard deviation, as well as a probability. We then try to find the value that leads to that probability.

Look for the idea of “Find the value that separates the lower/higher/middle ___ % from the rest of all values.”

Finding Values for Given Probabilities

1. Look for the mean and standard deviation in the problem – you will need these two values.
2. Choose the correct sign for the calculator.
Lower: \leq Higher: $x \geq$
3. Use the normal probability calculator.

(Stat > Calculators > Normal)

Enter the mean, standard deviation, and sign for x. Leave the x-value blank. Fill in the probability and click compute. Your answer will be next to x.

