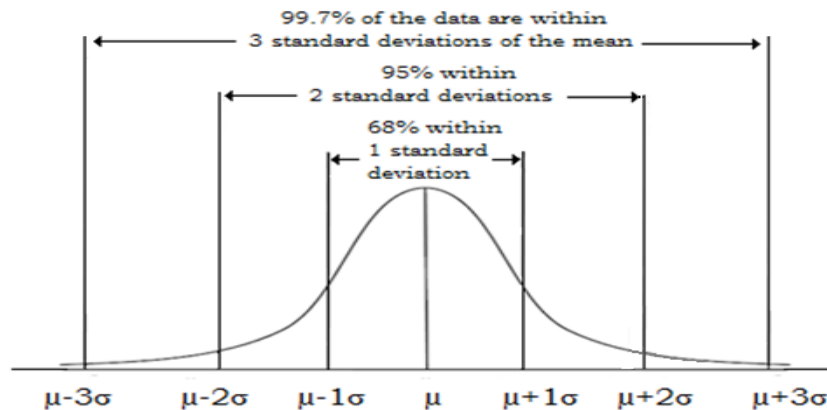
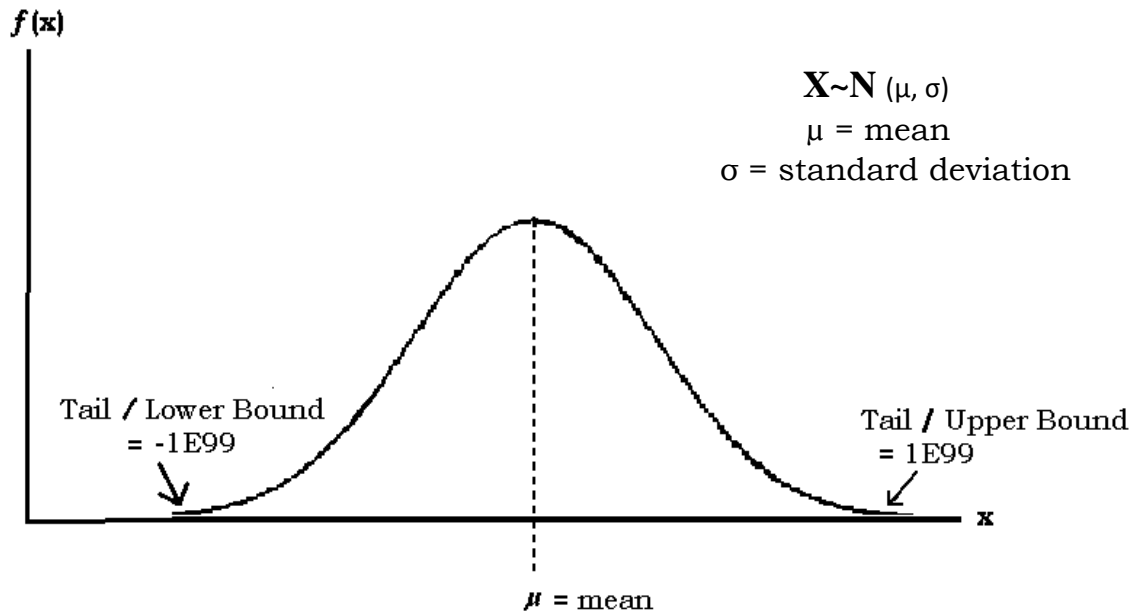


## Normal Distribution

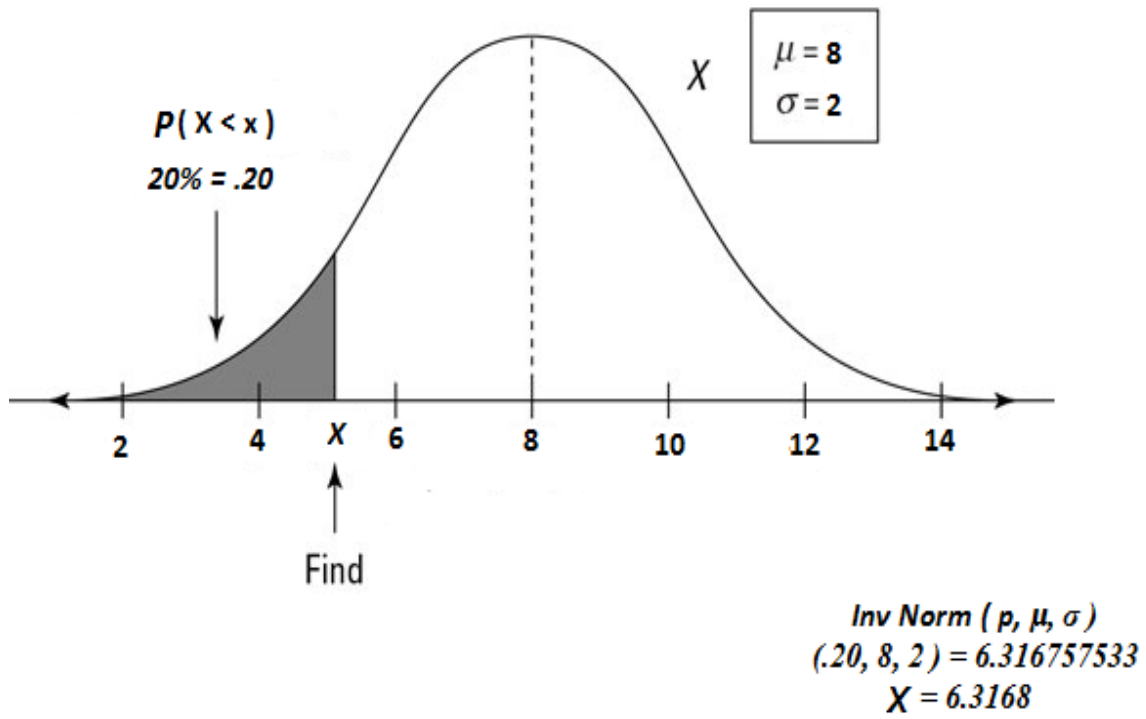


$$Z = \frac{x - \mu}{\sigma}$$

- $z$  is the "z-score" (Standard Score)
- $x$  is the value to be standardized
- $\mu$  is the mean
- $\sigma$  is the standard deviation

**Z-score**-(a standard score) indicates how many standard deviations an element is from the mean

**Normalcdf** - enter 2nd distr, normalcdf (lower bound, upper bound, mean, standard deviation)  
(lower, upper,  $\mu$ ,  $\sigma$ )



**InvNorm** - enter 2nd distr, invnorm (area to the left, mean, standard deviation)  
 $(p, \mu, \sigma)$