

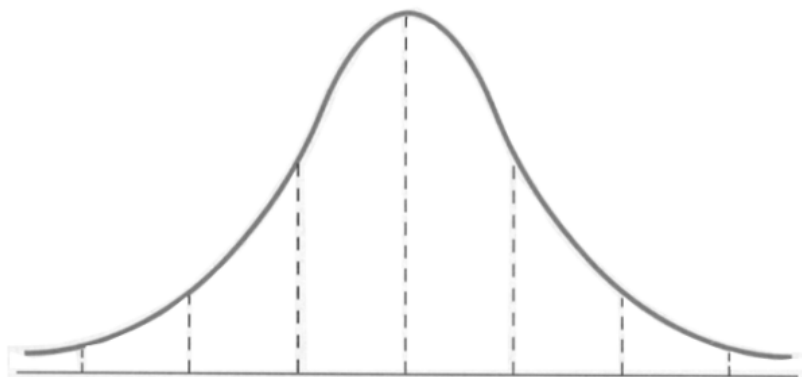
The Normal Distribution has certain characteristics:

- mean = median = mode
- the center is the mean, median and mode in a single peak
- symmetry about the center
- 50% of the data fall above the mean and 50% fall below the mean
- it's bell shaped with graph falling off evenly on either side of the mean

Very Important!!!

Know the percentages for each standard deviation from the mean.

Normal Distribution Curve:



Note:

The total area under the curve represents 100% of the data.

For normally distributed data, the area under the curve between any two values is equal to the probability that a given data value will fall between those two values!!

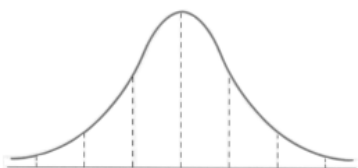
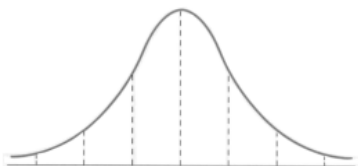
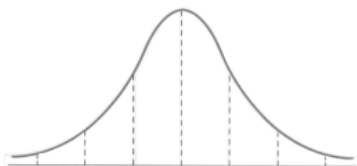
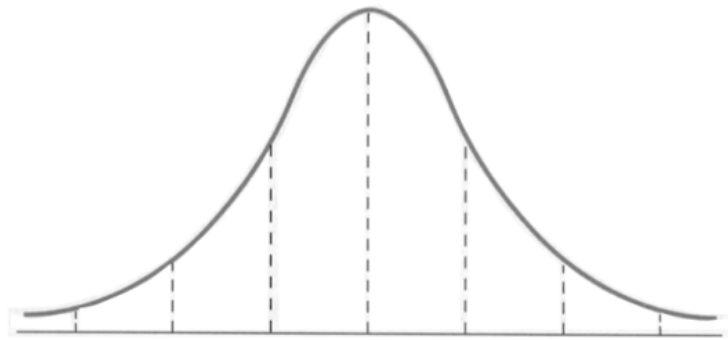
→

Note:

\bar{x} (used previously) represents the *mean for a sample of data*.

μ ("mu") represents the *mean of the population*.

We draw a normal distribution curve and label it as:



Attachments

pm5s4-p10.tns

5s4e1.mp4

5s4e2.mp4

5s4e3.mp4

5s4e4.mp4

bbar.gif

rbar.gif

dice-simulator.html