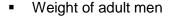


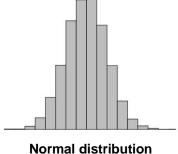
Vocabulary: Sight vs. Sound Reactions

Vocabulary

- Histogram a graph that shows how many data points are in each category.
 - On a histogram, the x-axis is divided into equal categories.
 - The *y*-axis shows how many values are in each category.
- Mean the sum of a set of numbers divided by the number of items in the set.
 - The mean of a set of numbers is also known as the set's average.
 - \circ The symbol for the mean is μ .
 - o For example, the mean of 4, 4, 5, 7, and 10 is $\frac{4+4+5+7+10}{5} = \frac{30}{5} = 6$.
- Normal distribution a data distribution that has a "bell" shape when graphed as a histogram.
 - Many kinds of data will tend to have a normal distribution. For example:



- Height of adult women
- Distance that 10-year-old boys can throw a football



- Range the difference between the greatest and least value in a data set.
 - \circ For example, the range of 4, 4, 5, 7, and 10 is 10 4 = 6.
- Standard deviation a statistic that describes how widely the points of a data set are distributed.
 - The symbol for standard deviation is σ .
 - If data points are very close, the standard deviation will be low.
 - o If data points are spread out, the standard deviation will be high.
 - If the data set has a normal distribution, then about 68% of the data will be within one standard deviation of the mean $(\mu \pm \sigma)$.
- Stimulus something that causes an organism to respond.

