

Math 150

Section 10.1 Frequency Distributions

Stem Plot

In a stem-and-leaf plot, we separate the digits in each data point into two parts consisting of the first one or two digits (the stem) and the remaining digit (the leaf). We also provide a key to show the reader the units of the data that was recorded.

Histogram

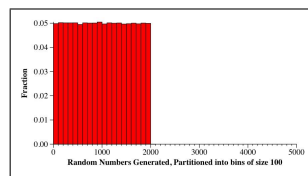
A histogram is similar to a bar graph and displays the information in a grouped frequency distribution. In a histogram, the number of observations in each interval determines the height of each bar, and the size of each interval determines the width of each bar.

Frequency Polygon

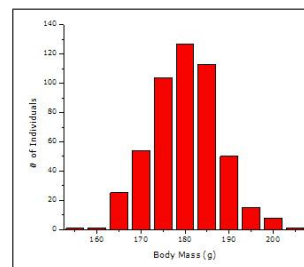
A frequency polygon is another form of graph that illustrates a grouped frequency distribution. The polygon is formed by joining consecutive midpoints of the tops of the histogram bars with straight-line segments.

Assessing the Shape of a Distribution

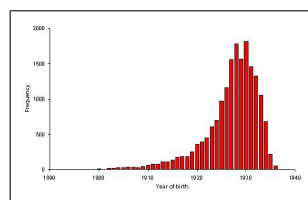
Uniform Distribution



Normal Distribution



Left skewed Distribution



Right skewed Distribution

