

MathFLIX CHALLENGE

October 21, 2004

Stem & Leaf / Box & Whisker Plots

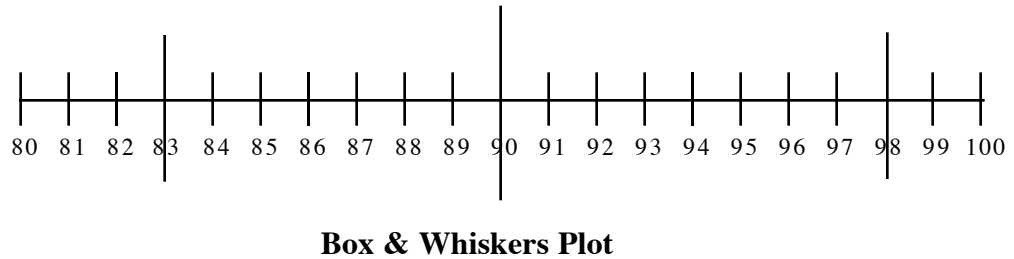
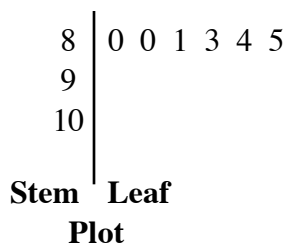
A **stem & leaf** plot has a set of numbers that are split between two places. The digits on the left are called the stem. The digits on the right are called the leaf. The stem is written once while the leaves are listed every time they appear.

A **box & whisker** plot is a visual representation of data that shows the middle 50% of the data relative to the extremes. To create a box & whisker plot, draw a line segment that represents the range of the data. Plot the median of the data and then plot the median of the upper quartile and the lower quartile. (The median divides the data into 2 equal parts. The median of the higher part is called the upper quartile of the data while the median of the lower data is the lower quartile.)

Use our *COUNTDOWN* data to complete the Stem & Leaf and Box & Whiskers plots below.

Data: Math test scores of students who watch COUNTDOWN

80 80 81 **83** 84 85 90 **90** 90 94 95 **98** 99 100 100



Data: Math test scores of students who DO NOT watch COUNTDOWN

58 60 64 65 70 71 74 78 80 87 88 90 90 91 92

