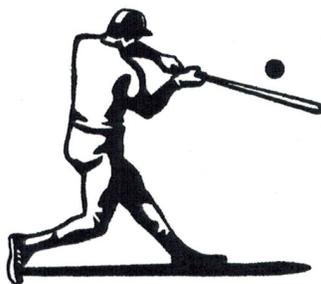


Data Analysis Project

Name: _____



Data Analysis

We are now beginning a unit on data analysis. This unit will include making graphs, charts, tables, etc... We will examine which graph is best used for specific data. For example, a pie chart is used primarily when working with percents.

Over the next week, we will begin our unit on data by conducting a survey on Favorite MLB baseball player. With this data, you will create a frequency chart and a line plot. You will be given additional data on the Boston Red Sox and the New York Yankees. With this data, you will interpret and organize it into various graphs. You will also find measures of central tendency (mean, median, and mode) range, and outlier.

Your poster board will be divided into a total of 12 equal sections (6 on the front and 6 on the back) Look at my example.

Each section will have a designated graph. (Put your name in Section 1)

Section 1: Using the age of the baseball players, find the mean, median, mode, range, and outlier. Can there be more than one mode?

Section 2: Make a frequency chart using Favorite player category.

Section 3: Make a line plot using Favorite player category

Section 4: Make a double bar graph using number of years in MLB category by comparing the position played between Boston and New York.

Section 5: Make a histogram using age category.

Section 6: Make a stem and leaf plot using RBI's

Section 7: Make a circle graph using percent of players' birthplace and figure out appropriate degrees for central angles.

Section 8 Make a box and whisker plot using batting averages

Section 9: Make a Venn diagram using Left, Right, Switch batter category

Section 10: Make a scatter plot showing relationship between the number of years in MLB and corresponding batting averages. Is there a positive, negative, or no correlation?

Section 11: Organize the 8 pitchers' salaries into a bar graph.

Section 12: Make a two-way box plot with two questions. Question 1. Have you seen the Red Sox Play or not seen the Red Sox play? Question 2. Have you seen the Yankees play or not seen the Yankees Play. Once you have gathered the information you could sort it into percent categories.

PLAY BALL!!