Algebra I
Data Analysis Review Name _____

Using the St. Louis Cardinals statistics sheet and the homeruns (HR) column of the **top 16** players, calculate the following items and create the following plots. SHOW ALL CALCULATIONS!!

Measures of Central Tendency (label each):

_____ _____ _____

minimum = _____ Q_1 = _____

maximum = _____ Q_3 = _____

range = _____ interquartile range = _____

Create a box and whisker plot of the homerun data below. Remember to check for outliers.

In your box and whisker plot above, what percentage of the players hit 3 or more homeruns? _____

In this plot above, what percentage of the players hit between 3 and 19.5 homeruns? _____

Create a line plot of the stolen bases (SB) data from the statistics sheet.

Using your St. Louis Cardinals statistics sheet, round each batting average (AVG) to the hundredths place. Then create a stem and leaf plot of the averages (do not include the hitters with a batting average of 0). Remember to title your plot and create a key for it as well.

Determine the median of your batting averages. _____

What batting average occurs most frequently? _____

Determine the following probabilities or odds if you have a gumball machine with 8 blue gumballs, 10 pink gumballs, 14 yellow gumballs, and 8 red gumballs. Remember to reduce all answers to lowest terms and leave odds as a fraction.

P(picking a yellow gumball) = _____

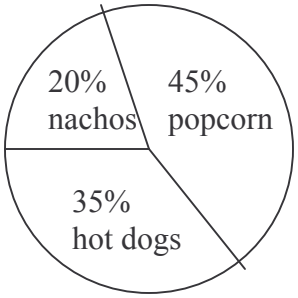
P(not picking a red gumball) = _____

P(picking a blue or pink gumball) = _____

odds of picking a red gumball = _____

odds of picking a blue or yellow gumball = _____

odds of picking a white gumball = _____



The Student Council surveyed 150 students as to what their favorite snack at the movies was. Use the pie graph to answer the following questions.

How many students did NOT choose popcorn?

How many students chose hot dogs?

How many students chose nachos or popcorn?