



Who's on Your Team? Student Worksheet

Central Tendency and Box-and-whiskers Review

In order to better compare sets of data, it is often necessary to analyze the data using a variety of statistical tools. In this activity you will construct a box-and-whiskers graph with several sets (boxes) displayed, and you will also use values of central tendency to give you a more complete analysis of the data.

Procedure

The following data are basketball scores for three players in the last 10 home games.

1. Construct a box-and-whiskers plot for each of the players and their scores.
2. Identify the mean, median, and mode for each of the four sets of data.
3. Answer the analysis questions that follow.

Dave	Adam	Laura
22	15	19
19	18	20
15	15	7
18	12	16
9	11	12
5	13	20
10	12	17
8	11	14
14	14	11
20	13	9

Label	Box-and-whiskers Plot	Mean	Median	Mode
Dave				
Adam				
Laura				

Questions.

1. Which player has the smallest range of points? List the name and range.
2. Which player has the largest range of points? List the name and range.
3. Compare and contrast the upper extremes. What does this tell you about the players?
4. Why aren't there any whiskers for Adam's graph?
5. Compare and contrast the lengths of the boxes. What does the length of the box tell you about the players?
6. Which player would you want on your team? Explain.