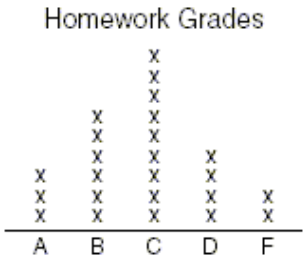
Grade 6 Mathematics Unit Preview
Quarter 1: Statistics (Analyze and Interpret Data)

Objectives: (Your student will be able to)

- **Find and interpret the mean, median, mode, and range of a data set.**
- **Analyze, interpret, and make predictions based on tables and frequency tables.** See C below.
- **Analyze, interpret, and make predictions based on single and double bar graphs.**
- **Analyze, interpret, and make predictions based on line plots.** See A below
- **Analyze, interpret, and make predictions based on single and double line graphs.**
- **Analyze, interpret, and make predictions based on stem and leaf plots.** See below B below.
- **Analyze, interpret, and make predictions based on circle graphs.**

A



B

Number of Points Scored by a Basketball Team for the Season

Stem	Leaves
6	0 1 3 5 7
7	2 4 5 6 7 8 9 9
8	1 3 3 3 5 6 7
9	1 4 5 8 9

8 | 1 = 81 points

C

HEIGHT OF PUPILS (CM)	FREQUENCY
150 ≤ x < 55	2
155 ≤ x < 160	6
160 ≤ x < 165	9
165 ≤ x < 170	5
170 ≤ x < 175	1

Vocabulary: (Words your student will need to understand)

• **Data Set:** A collection of data points.	• **Range:** The difference between the greatest and the least numbers in a set of data
• **Cluster:** a group of data that appears bunched together on a line plot.	• **Outlier:** a data point that is distinctly separate from the rest of the data.
• **Mean:** A number found by adding the data and dividing by the number of data. It is often referred to as the average..	• **Median:** When numbers are arranged from least to greatest, the median is the middle number or mean of two middle numbers
• **Mode:** The number that appears most frequently in a set of data	

Activities to do with your student (in addition to homework, optional):

- Find the mean, median, and mode of different data sets. The sports section in the newspaper could offer some good data sets.
- Look in newspapers, magazines, and appropriate online resources to analyze, interpret, and make predictions about different graphs and tables.
- Find different data sets and have your student create an appropriate way to display the data (bar graph, line plot, stem-and-leaf plot, line graph, circle graph etc.)
- Practice multiplication and division basic facts.

HOWARD COUNTY PUBLIC SCHOOL SYSTEM

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