Indicators

Objective:

4.05 Solve problems involving two or more sets of data using appropriate statistical measures.

Vocabulary and Resources		
mean	box plot	circle graph
median	histogram	line graph
mode	stem-and-leaf plot	bar graph
range	line plot	outlier

A. Prices (in cents) per serving of Spiffy and Fav-O-Rite peanut butter are displayed below. Which brand has the higher mean price per serving and how much higher is it?

Fav-O-Rite		**Spiffy**
9	0	
7 6 6 4 2 1	1	8 9
1 1 0	2	1 3 6 7 7
	3	2 2 5

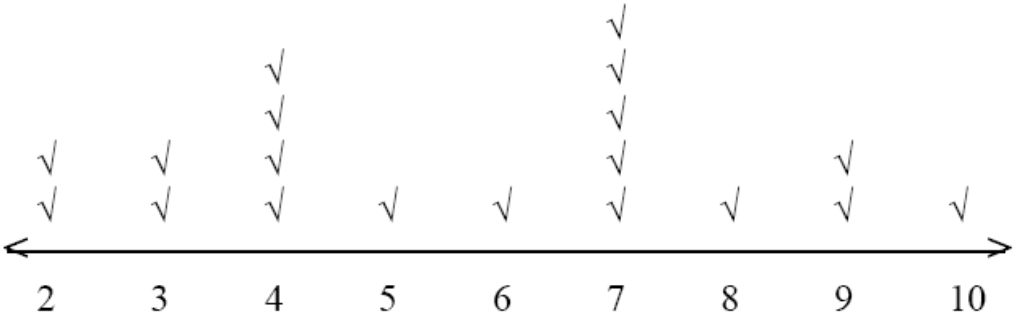
B. A teacher was comparing results on two sets of test scores for a group of eleven students. The mean score on the second test was seven points higher than that of the first test. The median grade on both tests was the same. Determine two sets of test scores that would produce these results.

C. Students in two seventh grade classes kept track of the amount of time they were involved in physical activity during a week long period. The information is summarized in the line plots below.

Mrs. Wood's Class

Number of Hours of Physical Activity
for One Week

Mr. Smith's Class



Number of Hours of Physical Activity
for One Week

a) What percent of the students in each class was involved in at least five hours of physical activity each week?
b) Determine the mean, median, and mode for each set of data.
c) Based on the given data, would you conclude that one of the classes was more active than the other? Explain your reasoning.