

Tables and Measure of Center and Spread

Student Activity

Name _____

In these activities you will interpret data presented in tables and find the mean, median, and interquartile range of a set of data. After completing the activities, discuss and/or present your findings to the rest of the class.

Activity 1 [Page 1.5]

- 1. Page 1.5 shows the original data in a table and dot plot.
 - a. Estimate the balance point of the distribution.
 - b. Select **Show Median** and **Show Mean**. How do the two measures of center compare? Give a reason for the difference.

Activity 2 [Page 1.9]

- 1. Identify the following as always true, sometimes true, or never true. Give an example using the TNS activity to support your thinking.
 - a. When the sum of the deviations from a given point is 0, that point will be the mean of the distribution.
 - b. If n people have m objects, the total number of objects is mn.
 - c. You can find the median of a set of data using the values given in a frequency table.
 - d. A frequency distribution is the same as a dot plot.



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Activity 3 [Page 2.2]

- 1. A second class had four students who each had 7 caps, six students with 2 caps, one student with no caps, eight students with 10 caps and three students with 5 caps.
 - a. How many students were in the class?
 - b. What was the total number of caps the students in the class owned?
 - c. Enter the data into the table on page 2.2. Use the columns in the table to verify your answers to a and b.
 - d. Select **Graph**. Describe the distribution.
- 2. Use the TNS activity to answer the following.
 - a. Find the median and IQR for the number of caps for this class.
 - b. Make a conjecture about the values of the mean and mean+/-MAD and how they will compare to the median and IQR.
 - c. Find the mean and IQR and check your conjecture in b.



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Class	

- 3. Enter the data for the number of caps owned by students in your class (note that no one entry can have more than 10 students).
 - a. Describe the distribution.
 - b. Find the measure of center and spread you would like to use to describe the number of caps of students in your class.