Name

Summarizing Data Distributions

For **1** through **5** use the data set below.

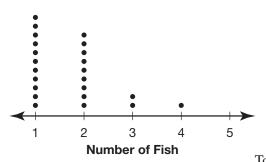
Mr. Hansen's physical education class did a long jump competition. Each person jumped 3 times, and wrote their best long jump (in inches).

84, 80, 80, 76, 79, 82, 89, 72, 76, 78, 80, 85, 110, 79, 77, 79, 81, 79, 80, 81, 72, 83

- 1. Make a box plot for the data.
- 2. a What is the mean? The median? _____
 - **b** What are the first and third quartiles?
 - c What is the interquartile range? _____
- **3.** Describe the shape of the data distribution.
- **4. Writing to Explain** Which would be the preferable measure of center, the median or the mean? Explain.
- **5.** Would the median or the mean be more affected if a long jump of 140 inches was added to the data? Explain how you know.
- 6. Which is the best representation of the center of this data set?
 - A
 2 fish
 C
 4 fish

 B
 3 fish
 D
 5 fish





Practice 19-9