

An Engaging View of Middle School Statistics



Cynthia Raff

cynthia@mathandteaching.org



NOTES:

POSTER PROBLEMS: STATISTICS

Part 1: Your teacher will divide you into groups.

- Identify members of your group as A, B, C, or D.
- Each group will start at a numbered poster. Our group start poster is _____.
- Each group will have a different colored marker. Our group marker is _____.

Part 2: Do the problems on the posters by following your teacher's directions.

Poster 1 (or 5)	<i>Shop Shoes</i> sold the following sizes during the last hour. 9, 7, 8, 8, 10, 8, 6, 5, 9, 8
Poster 2 (or 6)	Below are the housing prices (in thousands) for the most recent sales in Mathville. \$475, \$470, \$460, \$375, \$500, \$450, \$650, \$480, \$500, \$410
Poster 3 (or 7)	Teens were surveyed on the number of hours per week they spend looking at a screen. 63, 50, 40, 15, 35, 45, 54, 29, 25, 37, 49, 38
Poster 4 (or 8)	The number of pets students own are shown below. 3, 4, 2, 0, 1, 2, 12, 4, 2, 3, 5, 1, 0, 2, 4
A. Copy the data in numerical order and determine the median and mode. B. Determine the mean for the data set and note any potential outliers. C. Find the five-number summary for the data set. D. Make a data display that would be appropriate for the data set. Be sure to label the graph.	

Part 3: Return to your seats with your original poster. Work with your group.

Write a statistical question that can be answered with your group's data set and display. Answer the question and explain your thinking using the measures of center, variability, and/or the data display.