1. Each of you---Get as many blocks out of the box as you have siblings. Do not get a block for yourself but go ahead and count half-brothers and sisters and step-brothers and sisters if you want to, or not. Connect the blocks into a tower.

2. Now let’s head out into the hall where we have some room. The person(s) with the shortest tower (or possibly no tower) should be at one end and the person(s) with the tallest tower should be at the other. If more than one of you has the same tower length (ex: 3 of you have a tower 5 high, etc.), line up in front of each other. Yes, you are creating a human histogram.

3. Choose the tallest person to be the class scribe. (Yes, he/she will have to get out of line for a moment to get paper and writing instrument.) Choose the shortest person to be the class reader for instructions through number 9.

4. Find the median number of siblings in the class. Your scribe will write on the paper: Median: ______ (and fill in the blank).

5. Find the mode(s) number of siblings in the class. Have the scribe record the information. Mode: ______

6. Find the range of siblings in the class: ______

7. Find the midrange of siblings in the class. (Remember midrange is the largest value plus the smallest value and all divided by 2.) Midrange: ______

8. Find the mean, \( \bar{x} \), number of siblings in the class. (Think hard—you get to do this with no adding and no calculators.) Mean: ______

9. Return to your groups and answer the following questions after the scribe has recorded the info for everyone on the board.

   Record: median _____ mode _____ range ______
   midrange _____ mean _____

   a. These are all considered “averages” of different kinds. Which “average” was easiest to find? Why?
b. Which was the hardest? Why?

c. What about the other(s)?

9. A long time ago (1985) workers at the Geneva Steel Plant in Orem, Utah complained that they were not being paid enough for the hazardous work they were performing. The local newspaper did an exposé and after talking to the big boss at the plant reported the following: “Steel workers around the country make an average of $18,000. Steel workers at Geneva make an average of $21,600. So they have nothing to complain about.” Workers continued to disagree and decided somebody was lying. Here are the numbers. Can you figure out what happened? How should the story really have been reported or was it ok as it was?

Salaries at the plant:
- 5 floor workers: $16,000; $16,000; $16,000; $16,000; $16,000
- 1 big boss: $49,600

Find the mean, median and mode. Explain why the boss is happy with the article and why the workers are not. Explain what the workers would have liked to see in the article. Were the workers correct in saying the reporter or the boss had lied?