

**Chapter 6 Homework**

**Name:** \_\_\_\_\_

1. Students were asked to rate their general political attitude on a scale from 1 (Extremely Liberal) to 11 (Extremely Conservative). The ratings from those students are displayed below.

1 2 2 2 3 3 3 3 3 3 4 5 5 5 5 5 6 6 6 6 6 7 8 8 8 9 9 9 9 9 9 9 10 11

- 1a. What is the mode?
  
- 1b. What is (are) the median's location(s)?
  
- 1c. What is the median's value?
  
- 1d. What is  $\Sigma X$  equal to?
  
- 1e. What is  $N$  equal to?
  
- 1f. What is  $\bar{X}$  equal to?
  
- 1g. Is this distribution of scores skewed, and if so, in what direction?

2. Compute the mean for the following five scores: 10, 11, 12, 13, 14. Now, generate a new set of five scores by adding a constant of 3 to each original score. Compute the mean for the new scores. Do the same for another set of five scores generated by subtracting a constant of 10 from each original score. What are the effects of adding a constant or subtracting a constant from each score in a set of scores?