Chapter 5

1. Which of the following is least affected by outliers?

   a. The range.

   b. The mean.

   c. The median.*

   d. The standard deviation.

2. Which of the following would be the best way to decide whether the skew in the example above is problematic?

   a. See if the *z*-score is bigger than 1.96 or smaller than −1.96.

   b. See if the skew is significant at $p < .05$.

   c. Use the Shapiro–Wilk test.

   d. None of the above because of the large sample size.*

3. Which of the following transformations is most useful for correcting skewed data?

   a. Log transformation.*

   b. Tangent transformation.

   c. Arcsine transformation.

   d. Cosine transformation.

4. The assumption of homogeneity of variance is met when:

   a. The variance in one group is twice as big as that of a different group.

   b. Variances in different groups are approximately equal.*

   c. The variance across groups is proportional to the means of those groups.

   d. The variance is the same as the interquartile range.