

**Chapter 7 Homework**

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

1. The following scores were obtained on a recent Fundamentals of Psychology quiz.

3 5 5 6 7 7 7 8 8 9

- 1a. What is  $\sum X$  equal to?
- 1b. What is  $N$  equal to?
- 1c. What is  $\bar{X}$  equal to?
- 1d. What is the range equal to?
- 1e. Using the procedures in class (the tabled procedures) calculate each  $(X - \bar{X})$  value. What is the average deviation equal to?
- 1f. Calculate each  $(X - \bar{X})^2$  value. What is the sum of squares equal to?
- 1g. What is the sample variance equal to?
- 1h. What is the sample standard deviation equal to?

2. The following scores were obtained on a different recent Fundamentals of Psychology quiz.

3 4 4 6 7 7 8 8 9 9

- 2a. What is  $\sum X$  equal to?
- 2b. What is  $N$  equal to?
- 2c. What is  $\bar{X}$  equal to?
- 2d. What is the range equal to?
- 2e. Using the procedures in class (the tabled procedures) calculate each  $(X - \bar{X})$  value. What is the average deviation equal to?
- 2f. Calculate each  $(X - \bar{X})^2$  value. What is the sum of squares equal to?
- 2g. What is the sample variance equal to?
- 2h. What is the sample standard deviation equal to?

3. For the sets of data in problems 1 and 2, what descriptive statistics are the same (if any) and which are different (if any)? What does this tell you about the measures of central tendency and the measures of variance?