

Chapter 2 Homework

Name: _____

1. Consider the following data for eight individuals measured on variables X and Y and then calculate the sums requested to the right:

i	X	Y
A	2	4
B	2	1
C	5	3
D	6	7
E	1	2
F	3	4
G	1	2
H	1	7

1a. $\sum X$

1b. $\sum (X - Y)$

1c. $\sum X^2$

1d. $\sum (X)^2$

1e. $\sum (Y - X)^3$

1f. $\sum XY$

1g. $(\sum X)^2$

2. Round each of the following numbers to three decimal places using the procedures discussed in class:

2a. 1.2345 = _____ 2b. 2.4236 = _____ 2c. 17.16742 = _____ 2d. 311.4205 = _____

2e. 3.6795 = _____ 2f. 12.3456 = _____ 2g. 66.7295 = _____ 2h. 54.147356 = _____

3. What is the upper real limit and lower real limit of the following numbers?

3a. 12.6 URL = _____ LRL = _____ 3b. 22.58 URL = _____ LRL = _____

3d. 10.0 URL = _____ LRL = _____ 3d. 50 URL = _____ LRL = _____

4. Identify the type of measurement scale (nominal, ordinal, interval, or ratio) indicated in each example below.

4a. A cognitive scientist measures the time to solve a puzzle in seconds.

4b. A historian groups the books on his shelf based on category.

4c. A professor lists the publications on his curriculum vita in order of authorship.

4d. Students are asked to rate their political attitude on a scale from -5 (liberal) to 5 (conservative).

4e. Graduating seniors are ranked according to their overall GPA.

4f. The morning weather usually reports the temperature in degrees Fahrenheit.

4g. A professor counts the number of students that come to his office each week.

4h. There are four divisions in each conference of the National Football League.