

Name: _____

Summer assignment : AP Statistics Chapter 1, 2 and 3

These assignments are to be completed and turned in on the FIRST day of class at the beginning of the class. This work from Chapters 1 - 3 will be worth 40 points; a 20% per day penalty will be deducted for lateness.

Chapter 1 Reading Notes

1. How many pages did you see that contained equations?

2. What are the three simple steps to doing statistics right?

_____, _____, _____

3. According to the textbook, what is the purpose of the MATH BOXES ?

4. In order to learn statistics, yo have to _____.

Chapter 2

Reading Guide for Chapter 2 pages 6 – 12

Answer the following questions based on this reading assignment. Clear explanations are required for your answers.

1. What are data? (see the Key Concepts, p. 12)
2. Why are the “W’s” needed?
3. Name and briefly describe the “W’s” (and “How”). Include important terms from the reading.
4. How is the term “variable” used in the statistical sense?
5. Explain the difference between categorical data and quantitative data.
6. Data that are numerical data are not always quantitative data. Explain. Give an example (do not use the examples cited in the text).

Problems from Chapter 2

Problems from the textbook page 13 # 5, 12, 19, 20. For these problems, follow the instructions from the book at the top of page 13.

Do your work on this sheet, and attach separate paper, if needed. Clear explanations are required for your answers.

Chapter 3 Reading Guide pages 15 - 26

Define/explain/comment on each of these concepts from your reading.

1. three rules of Data Analysis. (comment on each of the rules)

2. categorical data

3. frequency table

4. relative frequency table

5. area principle

6. bar charts

7. pie charts

8. two-way tables for categorical data (also known as contingency tables)

9. marginal distribution

10. conditional distribution

11. segmented bar chart

Problems from Chapter 3

Do your work on this sheet, and attach separate paper, if needed.

1. page 28 #5. Make a pie chart (also known as a circle graph). Create a category called "other". Why is the "other" category needed?

2. page 29 #7 Make a bar chart

Answer the questions from the book.

Why is a circle graph NOT an appropriate display for these data?

3. page 29 # 10 Answer the questions from the book.
Then make a graph using the reorganized data.

4. page 30 # 14 Answer the questions from the book. (you will need to make a copy of this chart on the paper and then answer the questions).

5. page 33 # 23 Answer the questions from the book.