COM 200 Chapter Six Worksheet

The purpose of these worksheets is to provide brief application of the more important concepts in each chapter. You MUST read the entire chapter to be successful in the course! However, completing the chapter worksheets will prepare for you upcoming class activities and touch pad quizzes. You should have written responses to the questions offered ready to discuss with classmates and hand in if called upon.

1. Statistics help us do many things. Match the type of statistical procedure on the left with a function on the right. I've done the first one as an example.

Put # Here	Statistical Procedure		Function
2	Help compare two different datasets to facilitate comparison		1. Inferential statistics
	Summarize data collected		2. Z score
	Generalize findings from sample to population		3. Descriptive statistics
	Expresses the trust we are putting in our findings that they are true and not the result of errors		4. Confidence level

2. For each claim below decide if it is a claim about nominal data (ND), central tendency (CT) or a claim about dispersion (D).

a.____ The mean score on the 20 item scale was 83.6 out of a possible 100 points.

b.____ The range of responses on item six was 6 with a standard deviation of 1.23) which demonstrated little unity among the respondents.

c.____ The most frequently reported reason was "lack of time" (n = 123).

3. If you are conducting a study that may have some extreme scores, which measure of central tendency would you likely need to report as well as the mean to help clarify your summary of your data? _____

4. Numbers are also used to express findings. If Laura wants to help her readers visualize how the results from her survey on perceptions of relational violence in reality TV break down by ethnicity and sex of viewer, what should she create for her readers?

___ Bar graph
___ Pie Chart
___ Contingency Table
___ Something else _____.

For the next question I want you to work through some basic computations. Clearly in a real study the sample would be larger. The goal here is to "get" how we conduct basic description of data and then draw interpretations from that description.

5. In a study of the credibility of television news compared with the credibility of print news, a sample of adults was selected in Shelby County. Each person was asked to use the scale shown below to express his or her opinion regarding the following statement:

"Television news is more trustworthy than corresponding news reported in the newspaper."

1	2	3	4	5
Strongly disagree	Disagree	Neutral	Agree	Strongly agree

Responses from the participants were as follows:

5	1	2	1	3	1	4	3	2	1
2	2	5	3	1	4	1	2	1	2

a. Determine the mean, median, and range. _____   _____   _____
b. Write a 1 sentence interpretation of the mean.

6. Watch the first five minutes and thirty seconds of this TED talk (feel free to watch the rest).
http://www.ted.com/talks/david_mccandless_the_beauty_of_data_visualization?language=en

   A) What type of chart does he use to explain the billion dollar section?
        a. Pie
        b. Bar Graph
   B) What type of chart does he use to illustrate the spike in fears section?
        a. Pie
        b. Bar Graph