

## Math 102 Opportunity I

Name: \_\_\_\_\_ Key \_\_\_\_\_

Number of points for each problem: 1. (27) 9 for each of the 3 answers, 2. (48) 6 for each of the 8 answers, 3.(12) 3 for each of the 4 answers, 4. (10), your name (3).

1. There are 6 steps in the data analysis process. Tell what 3 of those steps are and write a sentence explaining each. **See Chapter 1**

a. \_\_\_\_\_

b. \_\_\_\_\_

c. \_\_\_\_\_

2. Here are some definitions of technical statistical terms. Write the term that each definition describes:

a. Population \_\_\_\_\_ the entire collection of objects about which information is desired.

b. descriptive \_\_\_\_\_ the branch of statistics that includes methods for organizing and summarizing data.

c. \_\_\_\_\_discrete\_\_\_ numerical values that correspond to isolated points on the number line.

d. \_\_\_\_\_inferential\_\_\_\_\_ methods for generalizing from a sample to a population.

e. categorical \_\_\_\_\_ data on which it doesn't make sense to perform arithmetic.

f. \_\_\_\_\_bar graph\_\_\_\_\_ a pictorial way to represent frequency distribution for non-numeric data.

- g. dot plot a graph of numerical data in which each observation is represented by a dot on or above a horizontal measurement scale.
- h. continuous possible values form an entire interval along the number line.
3. The chart lists the frequencies for where students purchased their textbooks. Compute the relative frequencies and con
- | Place      | Number of students | Relative frequencies |
|------------|--------------------|----------------------|
| bookstore  | 30                 | 25%                  |
| online     | 60                 | 50%                  |
| used       | 18                 | 15%                  |
| didn't buy | 12                 | 10%                  |
4. Construct an appropriate graph to summarize the data.