

Name _____

Unit 2: One Variable Statistics

Categorical vs. Quantitative Data

Determine whether the following variables are **categorical (C)** or **quantitative (Q)**. Be prepared to explain your answers!

1. Brand of vehicle purchased by a customer
2. Price of a CD
3. Type of M&Ms preferred by students
4. Phone number of each student
5. Height of a 1-year old child
6. Term paper status (turned in on time or turned in late)
7. Gender of the next baby born at a particular hospital.
8. Amount of fluid (oz) dispensed by a machine used to fill bottles with soda
9. Thickness of the gelatin coating on a Vitamin C capsule
10. Brand of computer purchased by a customer
11. State that a person is born in
12. Price of a textbook
13. Zip code of each student in this class
14. Actual weight of coffee in a one pound can
15. Length of a rattlesnake

Homework: Frequency Tables and Histograms

- 1) The following frequency table lists the ages of patrons dining at a local restaurant at 7:00 PM.

Age	Frequency
1-10	1
11-20	4
21-30	5
31-40	7
41-50	6
51-60	5
61-70	1

- a) Construct a histogram for the data. Use graph paper!

- 2) A bank wants to improve its customer service. Before deciding to hire more workers, the manager decides to get some information on the waiting times customers currently experience. During a week, 50 customers were randomly selected, and their waiting times, in minutes, were recorded.

The data are as follows: 18.5, 9.1, 3.1, 6.2, 1.3, 0.5, 4.2, 5.2, 0.0, 10.8, 5.8, 1.8, 1.5, 1.9, 0.4, 3.5, 8.5, 11.1, 0.3, 1.2, 4.4, 3.8, 5.8, 1.9, 3.6, 2.5, 4.5, 5.8, 1.5, 0.7, 0.8, 0.1, 9.7, 2.6, 0.8, 1.2, 2.9, 3.0, 3.2, 2.8, 10.9, 0.1, 5.9, 1.4, 0.3, 5.5, 4.8, 0.9, 1.6, and 2.2.

- a) Construct a frequency table of the data. (Remember to define the classes so that there are approximately 5-7 groupings.)
- b) Construct a histogram. Use graph paper!