

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!