

Stat 171 - Worksheet for Section 2.1

Name: _____

1. Construct a frequency distribution using the ages of 50 most powerful women listed below. Use seven classes.

26, 31, 35, 37, 43, 43, 43, 44, 45, 47, 48, 48, 49, 50, 51, 51, 51, 51, 52, 54, 54, 54, 55, 55,

55, 56, 57, 57, 57, 58, 58, 58, 59, 59, 59, 62, 62, 63, 64, 65, 65, 65, 66, 66, 67, 67, 72, 86

- (a) State the number of classes.
 - (b) Find the minimum and maximum data entries and the class width.
 - (c) Find the class limits.
 - (d) Tally the data entries.
 - (e) Write the frequency f for each class.
2. Using the frequency distribution constructed in Problem 1, find the midpoint, relative frequency, and cumulative frequency of each class. Describe any patterns.
- (a) Use the formulas to find each midpoint, relative frequency, and cumulative frequency.
 - (b) Organize your results in a frequency distribution.
 - (c) Describe any patterns in the data.

