Assignment 2 – Chapter 2 Homework

1) A city in the Pacific Northwest recorded its highest temperature at 89 degrees Fahrenheit and its lowest temperature at 28 degrees Fahrenheit for a particular year. If you wish to construct a frequency distribution with 10 classes, what will the upper and lower limits of the first class be?
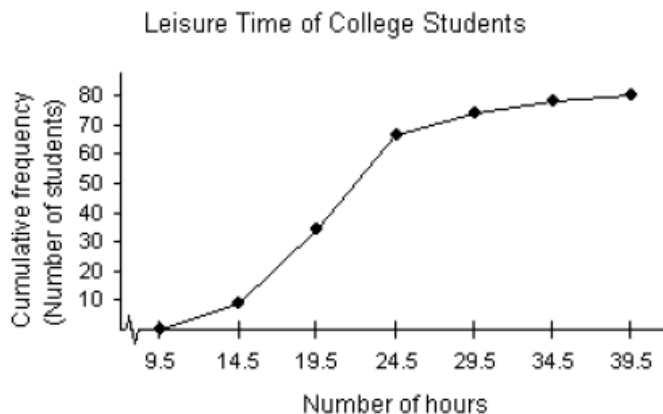
2) Use the given frequency distribution to find the
A) class width.
B) class midpoints of the first class.
C) class boundaries of the first class.

Height (in inches)

Class	Frequency, f
50 – 52	5
53 – 55	8
56 – 58	12
59 – 61	13
62 – 64	11

Weight (in pounds)

Class	Frequency, f
135 – 139	6
140 – 144	4
145 – 149	11
150 – 154	15
155 – 159	8

3) Use the ogive below to approximate the number in the sample.

Leisure Time of College Students

4) The top 14 speeds, in miles per hour, for Pro-Stock drag racing over the past two decades are listed below.
Find the mean speed.

181.1 202.2 190.1 201.4 191.3 201.4 192.2
201.2 193.2 201.2 194.5 199.2 196.0 196.2

5) A student receives test scores of 62, 83, and 91. The student's final exam score is 88 and homework score is 76. Each test is worth 20% of the final grade, the final exam is 25% of the final grade, and the homework grade is 15% of the final grade. What is the student's mean score in the class?

6) The mean IQ score of adults is 100, with a standard deviation of 15. Use the Empirical Rule to find the percentage of adults with scores between 70 and 130. (Assume the data set has a bell -shaped distribution.)

7) The scores of the top ten finishers in a recent golf tournament are listed below. Find the median score.
67 67 68 71 72 72 72 72 73 76

8) The scores of the top ten finishers in a recent golf tournament are listed below. Find the mode score.
71 67 67 72 76 72 73 68 72 72

9) The lengths of phone calls from one household (in minutes) were 2, 4, 6, 7, and 8 minutes. Find the midrange for this data.

10) The cost of five homes in a certain area is given.
$162,000 $170,000 $190,000 $160,000 $1,240,000
List any outlier(s).

11) The heights (in inches) of 10 adult males are listed below. Find the sample standard deviation of the data set.
70 72 71 70 69 73 69 68 70 71

12) Sample annual salaries (in thousands of dollars) for public elementary school teachers are listed. Find the sample standard deviation.
18.3 19.9 47.8 29.3 21.3 19.3