

SOC510 Homework #2 Due February 2 (Thursday)

Chapter 2.

1. Using the mean travel time of the example 2.2 (p.41), calculate the following statistics.
 - (a) the mean
 - (b) the median
 - (c) the five-number summary
 - (d) draw a boxplot
 - (e) the IQR
 - (f) the variance
 - (g) the standard deviation

2. Here are the IQ scores of 18 randomly chosen fourth-grade students:
140 139 128 120 127 133 96 110 118 118 145 131 128 133 86 115 128 98
Calculate the following statistics.
 - (a) the mean
 - (b) the median
 - (c) the five-number summary
 - (d) draw a boxplot
 - (e) the IQR
 - (f) the variance
 - (g) the standard deviation
 - (h) What percent of the observation in a distribution lie below the first quartile or above the third quartile?

3. Answer the following three questions from the textbook (5th edition);
 - (a) 2.18; 2.19; 2.22; 2.24; 2.25; 2.28(a); 2.32(a); 2.38