

1. Handspans and foot lengths are measured in millimeters and were collected from the same people. These data in their current order are not paired (each set of numbers was sorted separately)

Handspan		Foot length	
179		215	
180		240	
180		250	
180		250	
182		252	
190		257	
195		265	
200		265	
200		270	
205		270	
205		272	
206		275	
210		290	
210		300	
210		300	
215		310	
215		315	
220		315	
226		320	
240		330	
266		355	

- For the data handspan and the data foot length (separately), find the minimum, maximum, median, upper and lower quartiles and the interquartile range.
- Make a boxplot of the two data sets on the same axis.
- For the data handspan and the data foot length (separately), find the mean and mean absolute deviation.
- Choose an appropriate interval (so that each histogram will have between 5 and 12 bars) and graph each data set (handspan and foot length) separately with a histogram. Use the same axes for both histograms.
- Are the data sets approximately symmetric or are they notably asymmetric? Which measurement of spread is recommended for this distribution?
- Write a several sentences comparing the two data sets from the information in these graphs.
- Make a stem and leaf plot for the two data sets.

2. This is the same hand/foot data as in #1, but this time the data is paired (measurements from a single individual are on the same line).

- a. Plot the data in a scatter plot.
- b. Tell whether the data appears to be positively correlated, negatively correlated or not correlated.
- c. Draw in an approximate line of best fit and find the equation of your line.

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