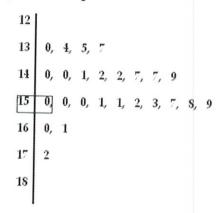
Instructions: Show all work to receive full credit. You should note any formulas used or calculator functions used, their inputs and outputs. I cannot grade work if I don't know where an answer came from. Be sure complete all parts of each questions, including requests for interpretation and explanations. Be as thorough as possible.

1. Below is a stem-and-leaf plot of measurements of arm span lengths.

Stem-and-leaf plot for ann span



The 'stem' numbers represent the tens, and the 'leaves', arranged in numerical order, represent the units of each data item - the boxed item represents 150 cm. Find the following statistics based on this data:

a. The mean

$$\dot{X} = 148.3$$

b. The median

c. The mode (if it exists)

d. The range

e. The standard deviation