

1. The following data represents the number of errors in Mr. Brust's packets.

{ 3, 3, 4, 5, 7, 7, 7, 9, 10, 11, 13, 13, 13, 15, 15, 17, 17, 18, 20, 22 }

a. Find the 5-number summary and create a boxplot of the number of errors. Be sure to label the axis.



b. Describe the shape of the distribution of Brust's errors.

2. Use boxplot to answer the questions.

a. What is the interquartile range?

b. What is the minimum value?

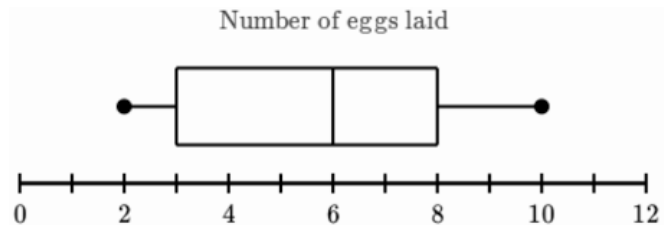
c. The bottom 50% of eggs laid lay between which two numbers?

d. The top 75% of eggs laid lay between which two numbers?

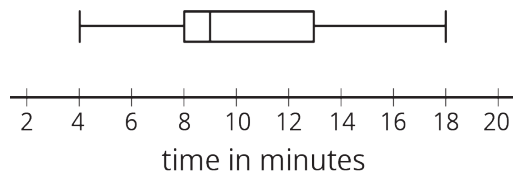
e. The bottom 75% of eggs laid lay between which two numbers?

f. The middle 50% of eggs laid lay between which two numbers?

g. What is the third quartile?



3 Circle the data sets that DO NOT match the boxplot.



a. {4, 8, 10, 12, 13, 17, 19}

b. {4, 7, 9, 9, 11, 11, 14, 18}

c. {4, 8, 9, 9, 13, 18}

d. {4, 4, 8, 8, 10, 12, 14, 18}

e. {4, 8, 8, 9, 12, 13, 18}

Comparing Distributions

4.4 Corrective Assignment

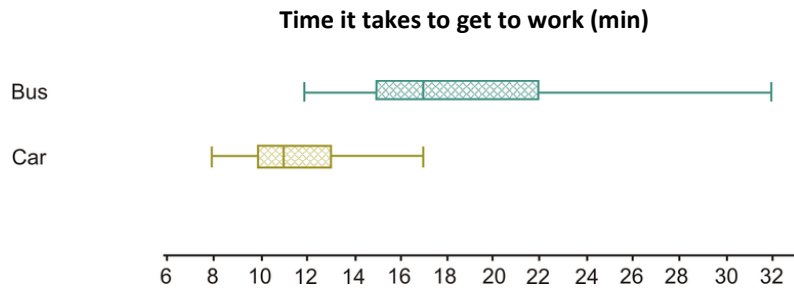
1. Here is the Bonds/Ruth data again. Create a double stemplot and then compare the distributions:

Barry Bonds (1986 – 2007): 16, 25, 24, 19, 33, 25, 34, 46, 37, 33, 42, 40, 37, 34, 49, 73, 46, 45, 45, 5, 26, 28

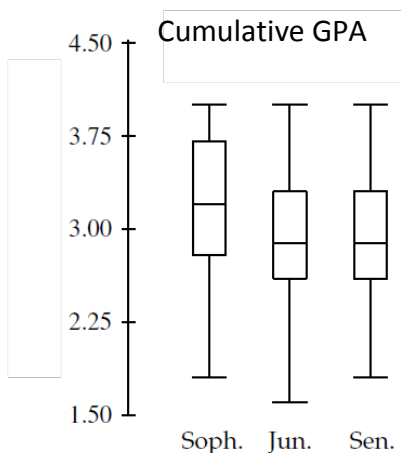
Babe Ruth (1915 – 1935): 4, 3, 2, 11, 29, 54, 59, 35, 41, 46, 25, 47, 60, 54, 46, 49, 46, 41, 34, 22, 6



2. Use sentences to compare the distribution of times it took to get to work driving a car versus taking a bus:



3. The boxplots below show the cumulative GPA for Kaiserslautern students for sophomores, juniors and seniors.



- Which class had lowest GPA?
- Which class had the most variation in GPA?
- Which two classes have centers that are closest to each other? Approximate the value of that center.