

NAME: _____

QUIZ 1

Given the following dataset

$$x = \{7, 10, 4, 5, 1, 6, 3, 7, 3, 14\},$$

answer the following questions:

1. What is the mean and what is the median of the collection x ?

2. What are the first quartile, the third quartile, and the interquartile range for the collection x ?

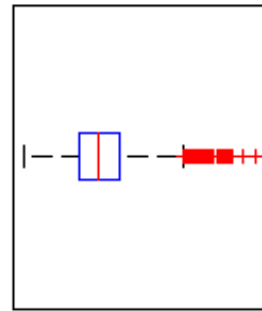
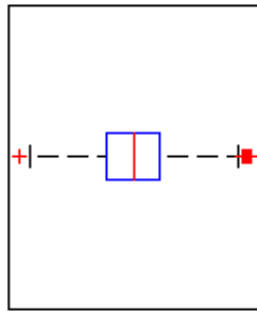
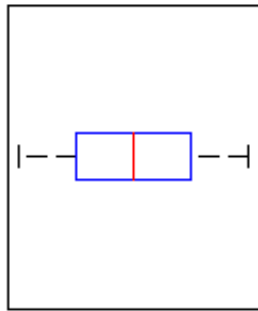
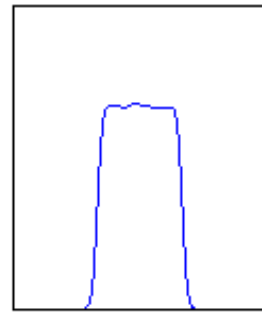
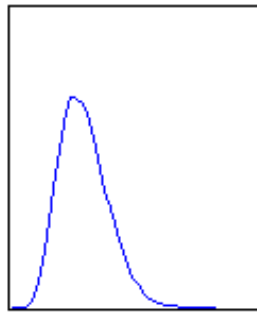
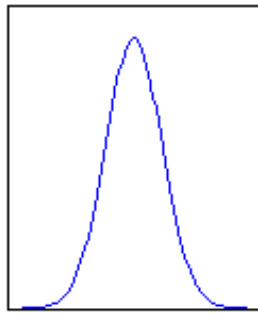
3. What are the deviations of the values in x from the mean?

4. What are the squares of the deviations of the values in x from the mean?

5. What is the variance of the collection x ?

6. What is the standard deviation of the collection x ?

Consider the following three frequency distribution graphs and the three boxplots



Match each graph with the boxplot that represents best the underlying data collection explaining the reason for your match.
