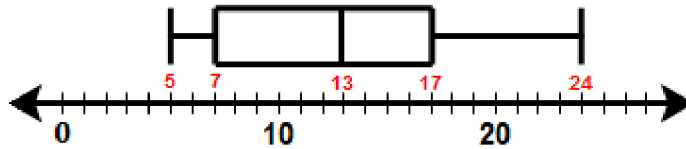


Unit 07-04 - Sample Quiz: Graphs of Data in 1 Variable

Multiple Choice

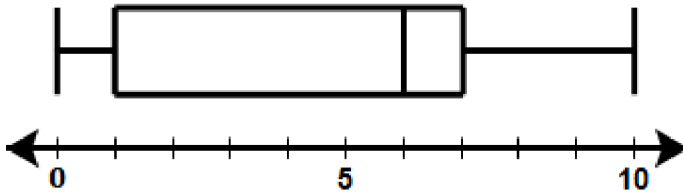
Identify the choice that best completes the statement or answers the question.

- ____ 1. Use the Box-and-Whisker Plot to identify the third quartile, **Q3**.



- a. 7
b. 13
c. 17
d. 19

- ____ 2. Consider the following Basic Box & Whisker Plot.



What is the **Interquartile Range (IQR)** of the data set shown in the graph?

- a. 0
b. 1
c. 6
d. 10

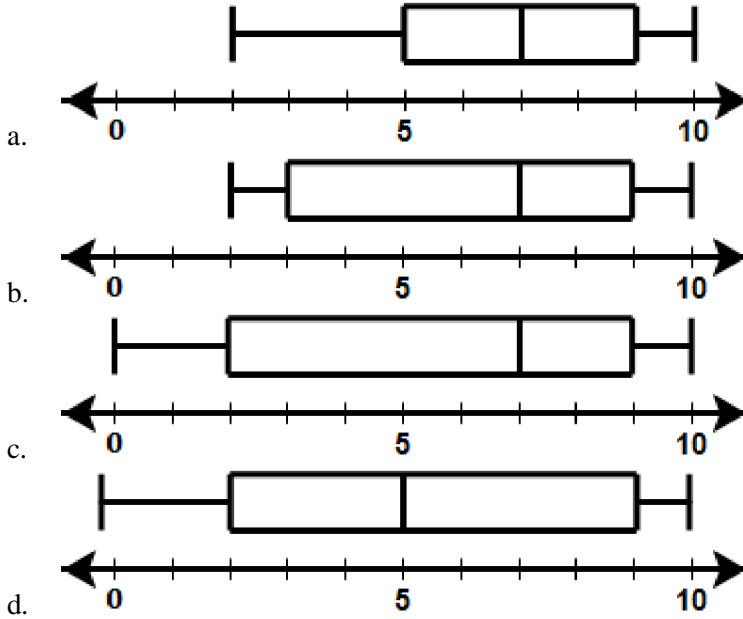
- ____ 3. Which is the best definition of an **Outlier**?

- a. Must look out of place
b. Must be far away from the mean
c. Must be more than $1.5 \times IQR$ below $Q1$ or $1.5 \times IQR$ above $Q3$
d. Must be at least 1.5 standard deviations from the mean

4. Consider the following Ordered Data Set.

2, 3, 5, 7, 7, 9, 10

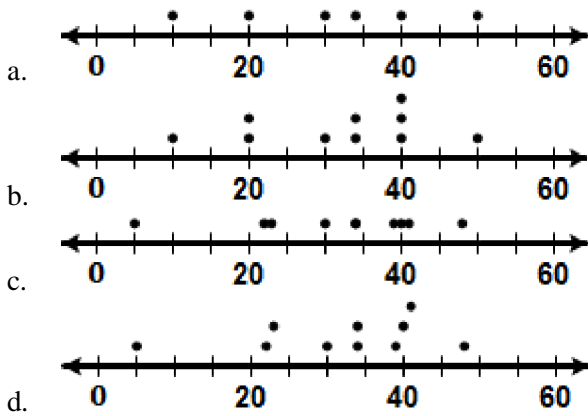
Which is a correct box and whisker plot of the data above?



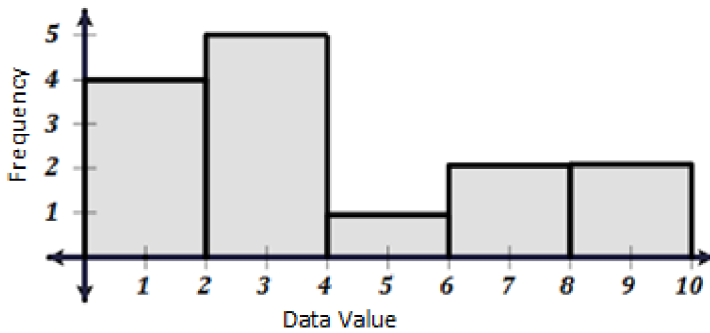
5. Consider the following Ordered Data Set.

5, 22, 23, 30, 34, 34, 39, 40, 41, 48

Which line plot below best represents the data set?



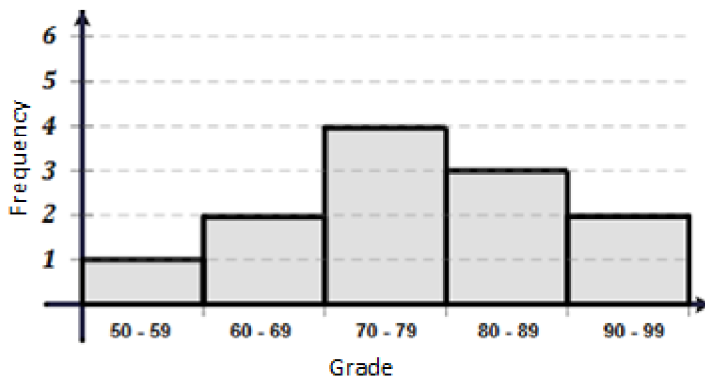
6. Consider the following histogram



Which ordered data set below could this histogram represent?

- a. {0, 1, 1, 2, 2, 2, 3, 3, 3, 3, 6, 7, 9, 9}
- b. {0, 0, 1, 1, 2, 2, 3, 3, 3, 5, 6, 7, 9, 9}
- c. {1, 1, 1, 1, 4, 4, 4, 4, 4, 5, 6, 8, 9, 9}

7. Consider the following histogram that shows the scores on the Unit 4 test fro Mr. Winking.



How many students did not pass the test (their grade was below 70)?

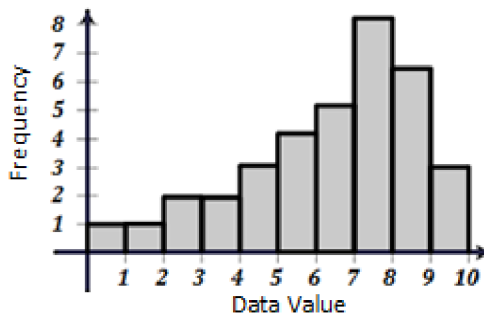
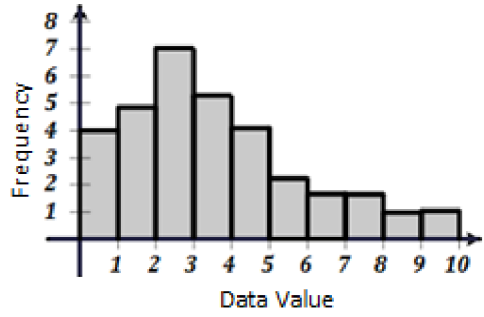
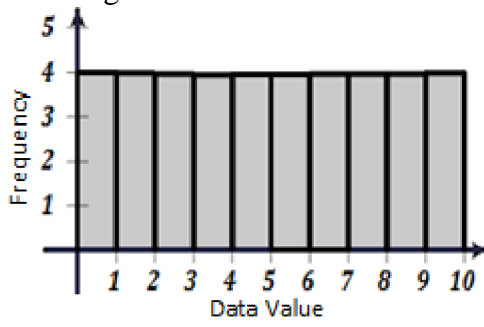
- a. 0
- b. 1
- c. 2
- d. 3

8. Consider the following data set has 20 data points and a range of 58

For a report, a person needs to represent the data in a histogram. If the histogram should have 6 classes, which below would be the most appropriate width of a class interval?

- a. 3
- b. 4
- c. 8
- d. 10

9. Which histogram below shows a data set that is **skewed right**?



___ 10. Which histogram has the **least** amount of variation?

