

Section 2.6-2.7 Self-Test

1) What percent of observations are at or below the 40th percentile?

- a) Less than 40%
- b) 40%
- c) At least 40%
- d) Less than 60%
- e) 60%
- f) At least 60%

2) What percent of observations are at or above the 40th percentile?

- a) Less than 40%
- b) 40%
- c) At least 40%
- d) Less than 60%
- e) 60%
- f) At least 60%

3) Consider the five number summary: Min = 20 Q₁=26 Median=35 Q₃=42 Max=80.
The IQR is:

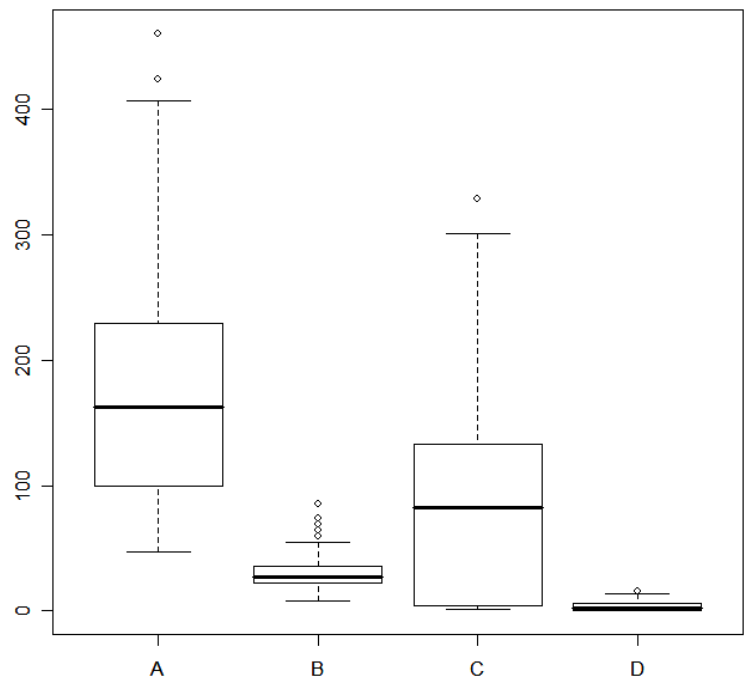
- a) 6
- b) 8
- c) 9
- d) 16
- e) 60

4) For the box plots shown to the right, which of the variables has the smallest median?

- a) A
- b) B
- c) C
- d) D
- e) Can't tell from the picture

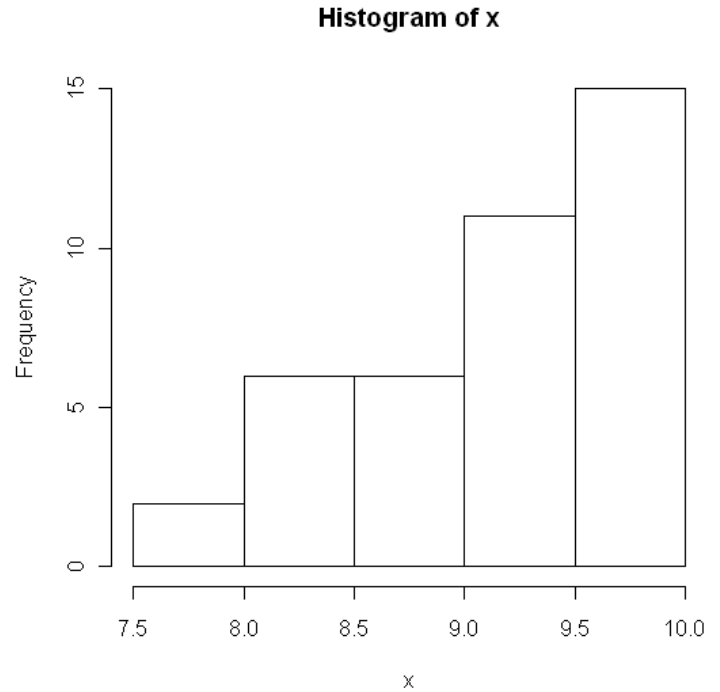
5) For the box plots shown to the right, the third quartile (Q₃) of variable A is approximately:

- a) 50
- b) 100
- c) 160
- d) 230
- e) 450



6) Consider the histogram to the left. This center and spread of this data set would be best summarized by:

- a) The mean and IQR
- b) The mean and median
- c) The five number summary
- d) The standard deviation and IQR
- e) The median and standard deviation



7) A list of 20 exam scores range from 64 to 98. If a typo was made and the 64 was entered as a 4, then

- a) The standard deviation would become larger and the IQR would become smaller
- b) The standard deviation would become larger and the IQR would stay the same
- c) The standard deviation would become smaller and the IQR would become larger
- d) The standard deviation would become smaller and the IQR would stay the same
- e) The standard deviation would stay the same and the IQR would become smaller