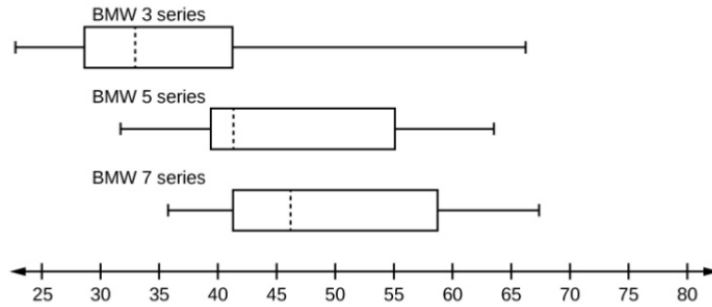


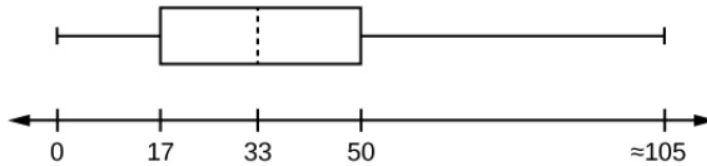
1. A survey was conducted of 130 purchasers of new BMW 3 series cars, 130 purchasers of new BMW 5 series cars, and 130 purchasers of new BMW 7 series cars. In it, people were asked the age they were when they purchased their car. The following box plots display the results.



In the BMW 3 group, suppose $Q_1 = 28$, $Q_3 = 42$, and the maximum value is 67. Then:

- A. according to the $1.5 \cdot IQR$ rule, 67 is not considered an outlier.
- B. according to the $1.5 \cdot IQR$ rule, 67 is considered an outlier.

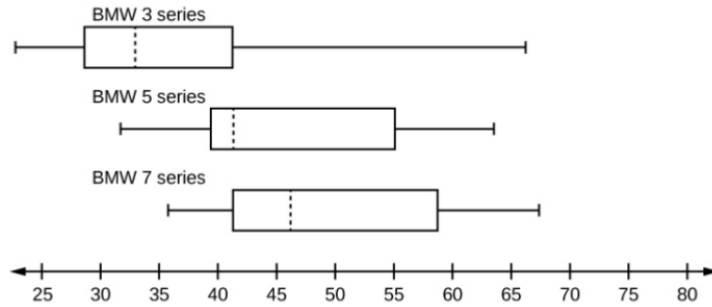
2. The following box plot summarizes the age distribution U.S. population for 1990, the latest available year.



What is the 1st quartile of this data set?

- A. The 1st quartile of this data set is 50.
- B. The 1st quartile of this data set is 17.
- C. The 1st quartile of this data set is 42.
- D. The 1st quartile of this data set is 27.
- E. The 1st quartile of this data set is 15.
- F. The 1st quartile of this data set is 10.
- G. The 1st quartile of this data set is 12.
- H. The 1st quartile of this data set is 59.

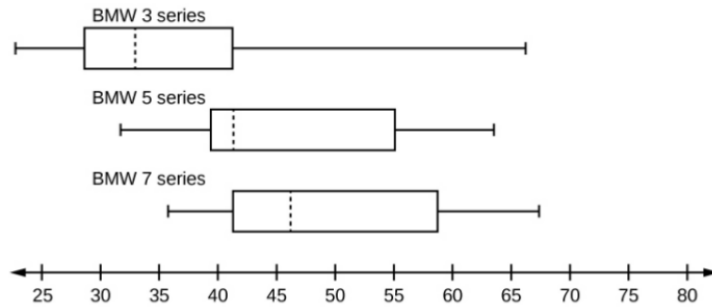
3. A survey was conducted of 130 purchasers of new BMW 3 series cars, 130 purchasers of new BMW 5 series cars, and 130 purchasers of new BMW 7 series cars. In it, people were asked the age they were when they purchased their car. The following box plots display the results.



Look at the BMW 7 series. Are there more data points in the interval from 40 to 50 or in the interval from 60 to 70?

- A. There are more data points in the interval from 40 to 50.
- B. There are more data points in the interval from 60 to 70.

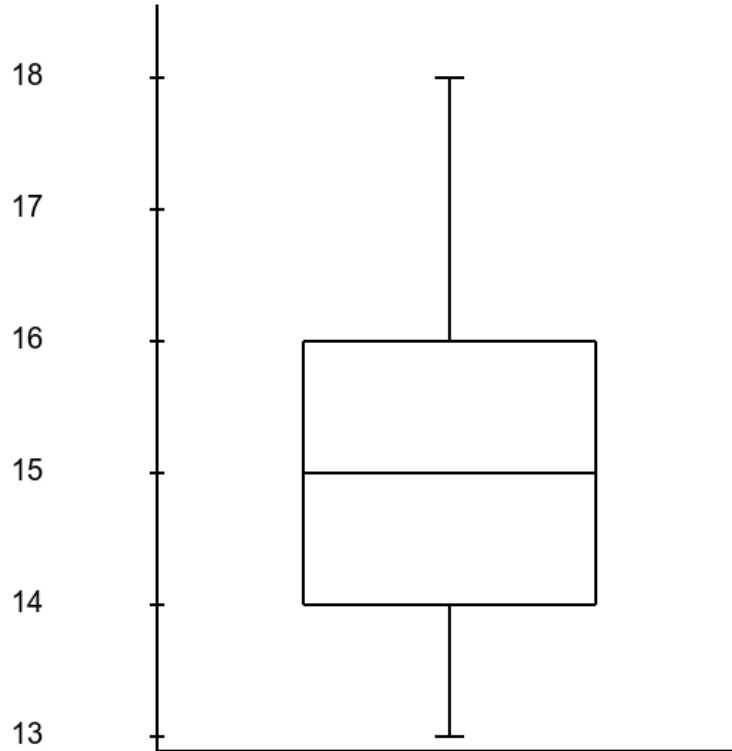
4. A survey was conducted of 130 purchasers of new BMW 3 series cars, 130 purchasers of new BMW 5 series cars, and 130 purchasers of new BMW 7 series cars. In it, people were asked the age they were when they purchased their car. The following box plots display the results.



Look at the BMW 3 series. Are there more data points in the interval from 25 to 35 or in the interval from 45 to 55?

- A. There are more data points in the interval from 45 to 55.
- B. There are more data points in the interval from 25 to 35.

5. Below is a box plot of a set of data.

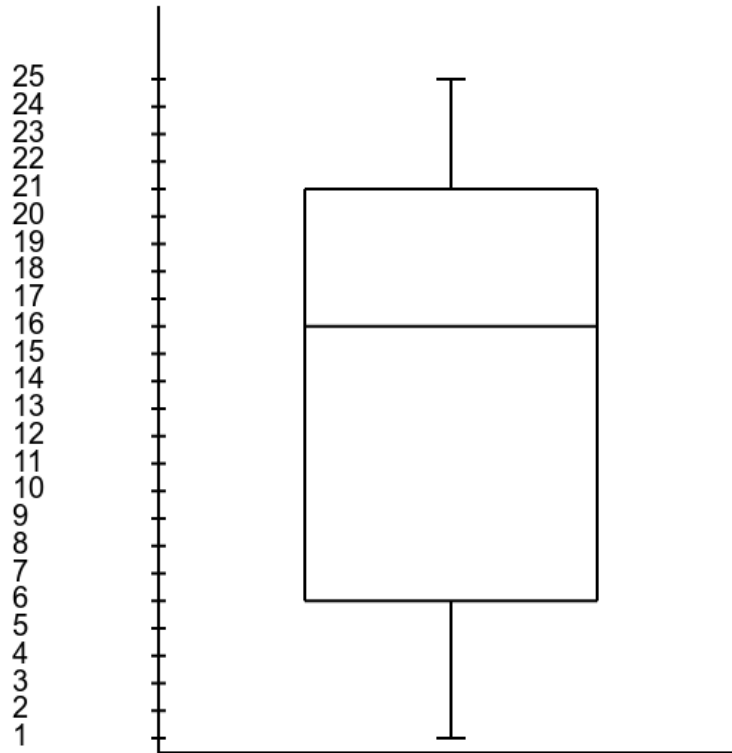


According to the $1.5 \cdot IQR$ rule, does this data set contain any outliers?

A. No. This data set contains no outliers according to the $1.5 \cdot IQR$ rule.

B. Yes. This data set contains at least 1 outlier according to the $1.5 \cdot IQR$ rule.

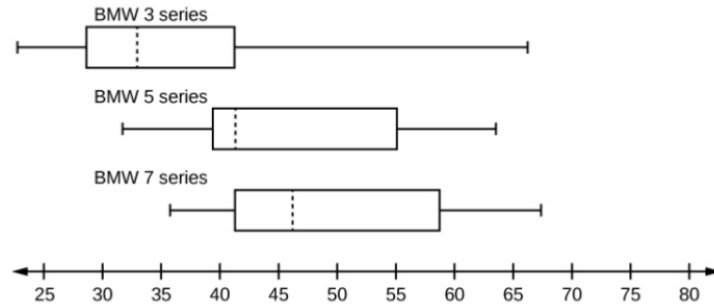
6. Below is a box plot of a set of data.



Are there more data points in the interval from 1 to 16 or in the interval from 11 to 25?

- A. There are more data points in the interval from 11 to 25.
- B. There are more data points in the interval from 1 to 16.
- C. Both intervals contain the same number of points.

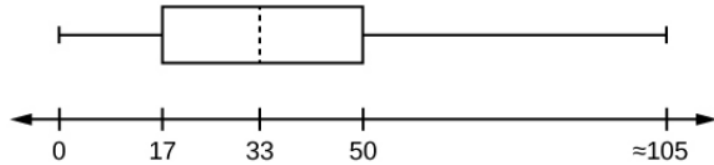
7. A survey was conducted of 130 purchasers of new BMW 3 series cars, 130 purchasers of new BMW 5 series cars, and 130 purchasers of new BMW 7 series cars. In it, people were asked the age they were when they purchased their car. The following box plots display the results.



Look at the BMW 5 series. Are there more data points in the interval from 35 to 45 or in the interval from 45 to 55?

- A. There are more data points in the interval from 45 to 55.
- B. There are more data points in the interval from 35 to 45.

8. The following box plot summarizes the age distribution U.S. population for 1990, the latest available year.



What is the median of this data set?

- A. The median of this data set is 33.
- B. The median of this data set is 31.
- C. The median of this data set is 28.
- D. The median of this data set is 37.
- E. The median of this data set is 42.
- F. The median of this data set is 27.
- G. The median of this data set is 29.
- H. The median of this data set is 36.