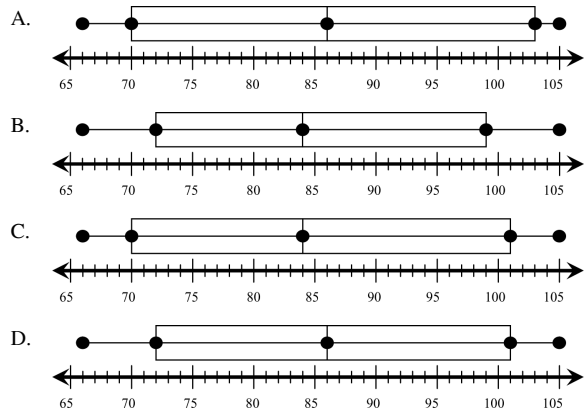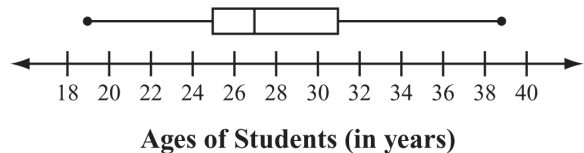**Name:** _____   **Date:** _____

1. The following is an ordered list of monthly normal high temperatures for Phoenix, AZ.

    66, 66, 70, 74, 75, 84, 88, 93, 99, 103, 103, 105

   Which box-and-whisker plot best displays the data?

    A.

    B.

    C.

    D.

2. Ms. Simmons made the box-and-whisker plot below to show some statistics about the ages of the students in her class at a community college.

    Ages of Students (in years)

    Which of the following best represents the median age of the students in her class?

    A. 25   B. 27   C. 29   D. 31
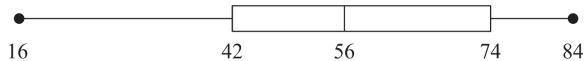
3. The box and whisker graph shown below represents the results of a survey of the estimated gas mileage of 100 car models.
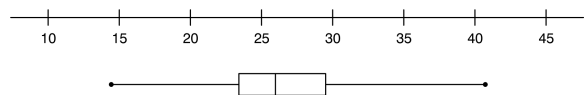
    Which statistics—-mean, median, mode, range—can be determined from this graph?

    A. mean only   B. median only

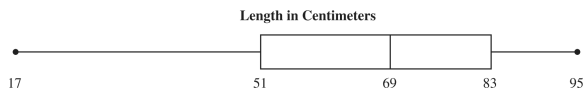   C. range and mean   D. range and median

4. The box-and-whisker plot shown below represents 600 scores on a district geometry test.

    How many students scored between 42 and 56?

    A. 84   B. 150   C. 300   D. 450

5. The box-and-whisker plot shown below represents the approximate length (in centimeters) of fish caught by a certain fisherman.

    Length in Centimeters

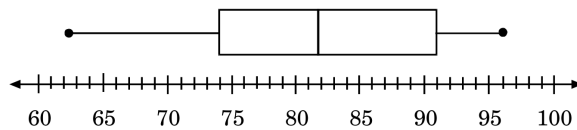   What is the *range* of the data?

    A. 23 centimeters   B. 32 centimeters

    C. 78 centimeters   D. 95 centimeters

6. Mr. Johnson created a box-and-whisker plot from his students' test grades shown in the stem-and-leaf plot.

    Students' Test Grades

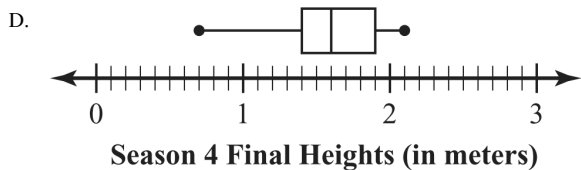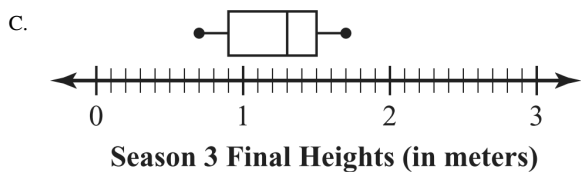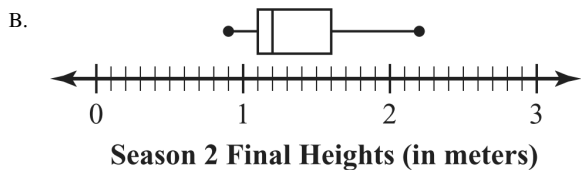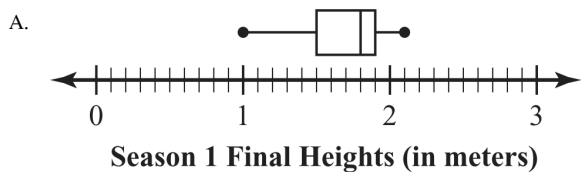 | 6 | 2 8 |
    |---|-----|
    | 7 | 0 1 4 4 9 |
    | 8 | 1 1 1 3 6 8 8 |
    | 9 | 0 2 3 3 6 6 |

    Students' Test Grades

    Jessica was absent on the day the test was given. When she took the test, her grade was 51. How will Jessica's grade change the box-and-whisker plot for the test grades?

    A. The median will increase.

    B. The range will decrease.

    C. The upper quartile will increase.

    D. The lower quartile will decrease.

7. A researcher collected data on the final heights of corn plants. The data were collected from one farm over four growing seasons. He drew box-and-whisker plots to represent the data he collected for each growing season.

Which of the following box-and-whisker plots shows the *greatest* median final height?

A.

Season 1 Final Heights (in meters)

B.

Season 2 Final Heights (in meters)

C.

Season 3 Final Heights (in meters)

D.

Season 4 Final Heights (in meters)

8. The box-and-whisker plot below shows the distribution of the daily high temperatures, in degrees Fahrenheit, in the town of Clifton during the year 2004.
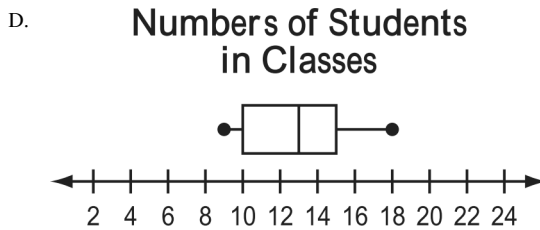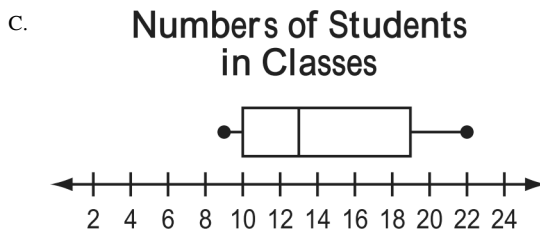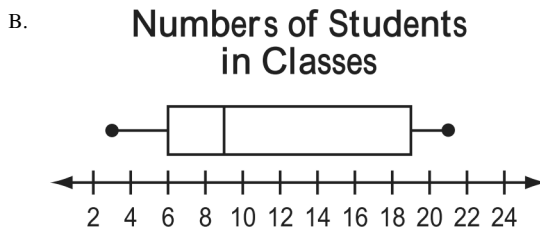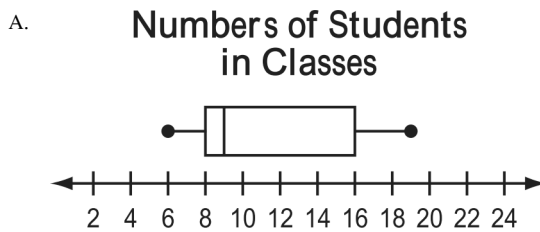
Daily High Temperatures (in degrees Fahrenheit)
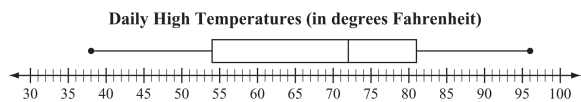
Based on the box-and-whisker plot, in which of the following intervals of temperatures is it most likely that exactly 50% of the daily high temperatures are located?

A. 38°F to 54°F   B. 38°F to 81°F

C. 54°F to 72°F   D. 54°F to 81°F

9. A community center offers classes for students.

- The range of the number of students in each class is 13.
- The median number of students in each class is 9.

Which of the following box-and-whisker plots could represent the numbers of students in the classes?

A.

Numbers of Students in Classes

B.

Numbers of Students in Classes

C.

Numbers of Students in Classes

D.

Numbers of Students in Classes

Box and Whisker Plot - Mini Assessment

10. Mike created a box-and-whisker plot showing the miles he traveled on ten trips.

Miles Traveled
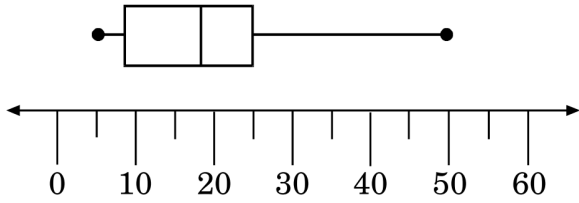
Jake also created a box-and-whisker plot of the miles he traveled on ten trips. His data set has the same median, but its interquartile range is 8. Which statement must be true?

A. Mike's plot must have a larger box.

B. Jake's plot must have a larger box.

C. Mike's plot must have a greater range.

D. Jake's plot must have a greater range.

11. What is the inter-quartile range for the set of data?
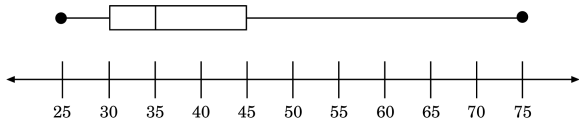
A. 15   B. 30   C. 45

12. According to this box-and-whisker plot, what percent of students study less than 16 hours per week?
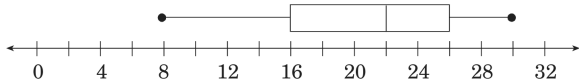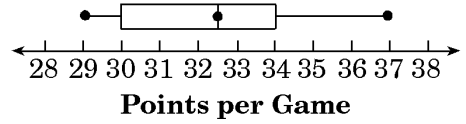

A. 50%   B. 25%   C. 16%   D. 6%

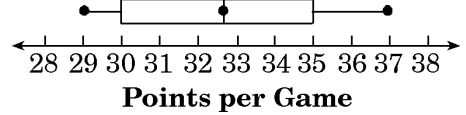13. Scoring leaders in the NBA for 1986–1995 had these averages:

30, 37, 35, 33, 34, 32, 30, 33, 30, 29

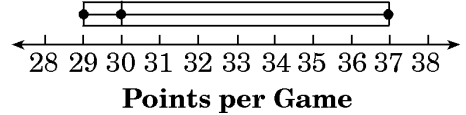Which box plot accurately illustrates these averages?
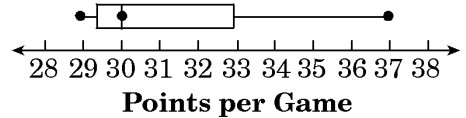
A. **NBA Top Scoring Averages (1986-1995)**
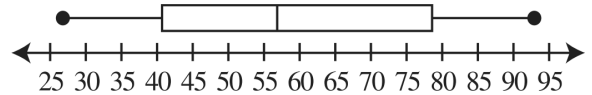

Points per Game

B. **NBA Top Scoring Averages (1986-1995)**

Points per Game

C. **NBA Top Scoring Averages (1986-1995)**

Points per Game

D. **NBA Top Scoring Averages (1986-1995)**

Points per Game

14. A set of data was used to make the box-and-whisker plot shown below.

The upper quartile value of the data set is between which two numbers?

A. 40 and 45   B. 55 and 60

C. 75 and 80   D. 90 and 95

        Box and Whisker Plot - Mini Assessment