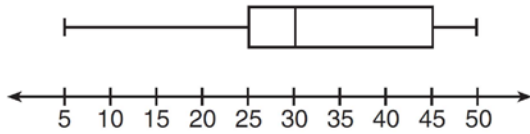
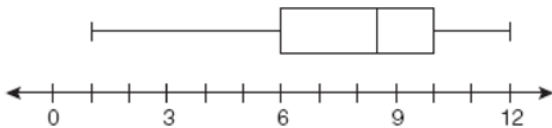


A.S.6: Box-and-Whisker Plots 2: Understand how the five statistical summary (minimum, maximum, and the three quartiles) is used to construct a box-and-whisker plot

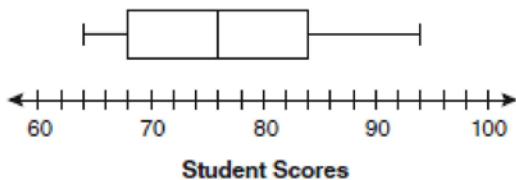
- 1 In the box-and-whisker plot below, what is the 2nd quartile?



- 2 What is the value of the third quartile shown on the box-and-whisker plot below?

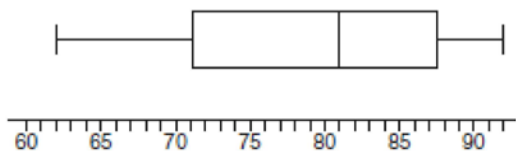


- 3 The box-and-whisker plot below represents students' scores on a recent English test.



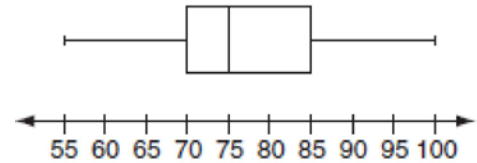
What is the value of the upper quartile?

- 4 The accompanying diagram shows a box-and-whisker plot of student test scores on last year's Mathematics A midterm examination.



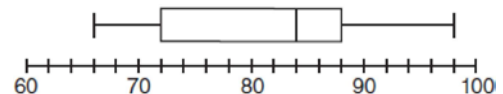
What is the median score?

- 5 The accompanying box-and-whisker plot represents the scores earned on a science test.



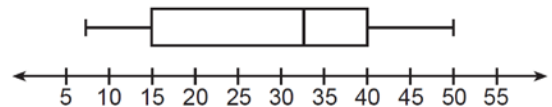
What is the median score?

- 6 The box-and-whisker plot below represents the math test scores of 20 students.



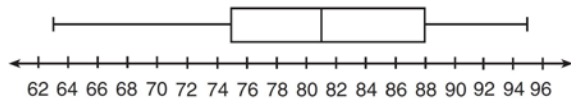
What percentage of the test scores are *less than* 72?

- 7 The box-and-whisker plot below represents the ages of 12 people.



What percentage of these people are age 15 or older?

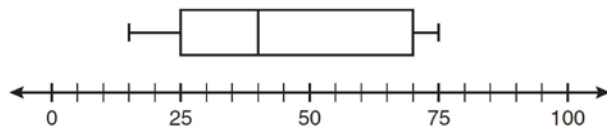
- 8 The box-and-whisker plot below represents a set of grades in a college statistics class.



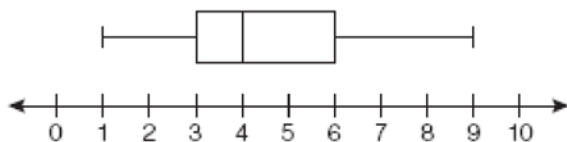
Which interval contains exactly 50% of the grades?

- 1) 63-88
- 2) 63-95
- 3) 75-81
- 4) 75-88

- 9 What is the range of the data represented in the box-and-whisker plot shown below?



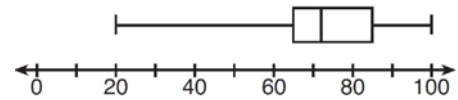
- 10 A movie theater recorded the number of tickets sold daily for a popular movie during the month of June. The box-and-whisker plot shown below represents the data for the number of tickets sold, in hundreds.



Which conclusion can be made using this plot?

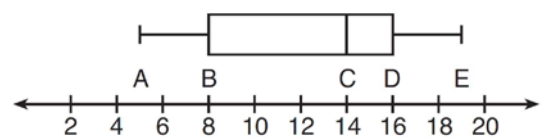
- 1) The second quartile is 600.
- 2) The mean of the attendance is 400.
- 3) The range of the attendance is 300 to 600.
- 4) Twenty-five percent of the attendance is between 300 and 400.

- 11 The box-and-whisker plot below represents the results of tests scores in a math class.



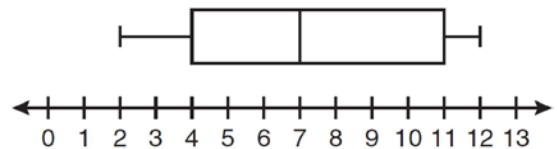
What do the scores 65, 85, and 100 represent?

- 12 The box-and-whisker plot shown below represents the number of magazine subscriptions sold by members of a club.



Which statistical measures do points *B*, *D*, and *E* represent, respectively?

- 13 Based on the box-and-whisker plot below, which statement is *false*?



- 1) The median is 7.
- 2) The range is 12.
- 3) The first quartile is 4.
- 4) The third quartile is 11.

A.S.6: Box-and-Whisker Plots 2: Understand how the five statistical summary (minimum, maximum, and the three quartiles) is used to construct a box-and-whisker plot

Answer Section

1 ANS:
30

REF: 011512ia

2 ANS:
10
The value of the third quartile is the last vertical line of the box.

REF: 080818ia

3 ANS:
84
The value of the upper quartile is the last vertical line of the box.

REF: 060915ia

4 ANS:
81
The median score is the vertical line in the center of the box.

REF: 010301a

5 ANS:
75
The median score is the vertical line in the center of the box.

REF: 060610a

6 ANS:
25

REF: 011001ia

7 ANS:
75

REF: 011220ia

8 ANS: 4 REF: 081312ia

9 ANS:
60
 $75 - 15 = 60$

REF: 011113ia

10 ANS: 4 REF: 010929ia

11 ANS:
 Q_1, Q_3 , maximum

REF: 061314ia

12 ANS:
first quartile, third quartile, maximum

REF: 011408ia

13 ANS: 2 REF: 081106ia