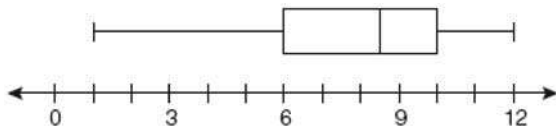


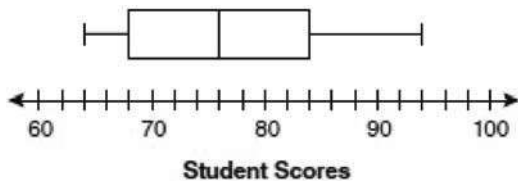
A.S.6: Box-and-Whisker Plots 1: Understand how the five statistical summary (minimum, maximum, and the three quartiles) is used to construct a box-and-whisker plot

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



- 1) 6
- 2) 8.5
- 3) 10
- 4) 12

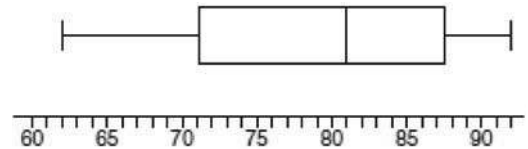
- 2 The box-and-whisker plot below represents students' scores on a recent English test.



What is the value of the upper quartile?

- 1) 68
- 2) 76
- 3) 84
- 4) 94

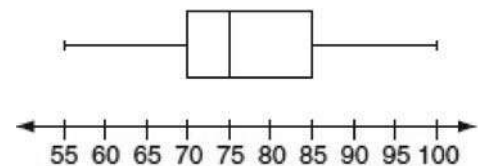
- 3 The accompanying diagram shows a box-and-whisker plot of student test scores on last year's Mathematics A midterm examination.



What is the median score?

- 1) 62
- 2) 71
- 3) 81
- 4) 92

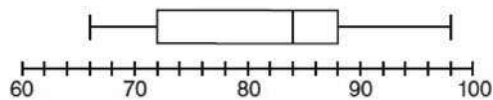
- 4 The accompanying box-and-whisker plot represents the scores earned on a science test.



What is the median score?

- 1) 70
- 2) 75
- 3) 77
- 4) 85

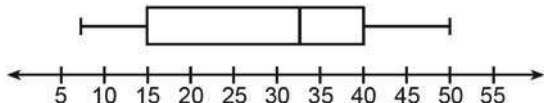
- 5 The box-and-whisker plot below represents the math test scores of 20 students.



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

- 1) 25
- 2) 50
- 3) 75
- 4) 100

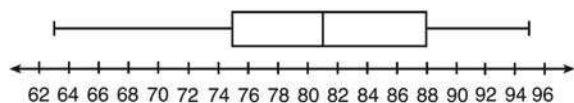
- 6 The box-and-whisker plot below represents the ages of 12 people.



What percentage of these people are age 15 or older?

- 1) 25
- 2) 35
- 3) 75
- 4) 85

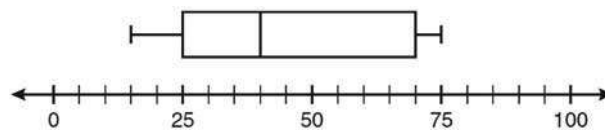
- 7 The box-and-whisker plot below represents a set of grades in a college statistics class.



Which interval contains exactly 50% of the grades?

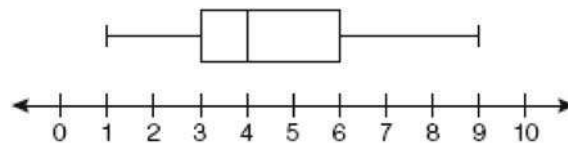
- 1) 63-88
- 2) 63-95
- 3) 75-81
- 4) 75-88

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



- 1) 40
- 2) 45
- 3) 60
- 4) 100

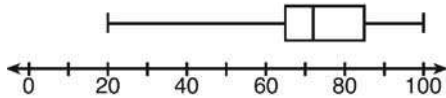
- 9 A movie theater recorded the number of tickets sold daily for a popular movie during the month of June. The box-and-whisker plot shown below represents the data for the number of tickets sold, in hundreds.



Which conclusion can be made using this plot?

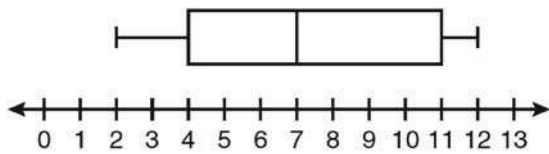
- 1) The second quartile is 600.
- 2) The mean of the attendance is 400.
- 3) The range of the attendance is 300 to 600.
- 4) Twenty-five percent of the attendance is between 300 and 400.

- 10 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?

- 1) Q_1 , median, Q_3
 - 2) Q_1 , Q_3 , maximum
 - 3) median, Q_1 , maximum
 - 4) minimum, median, maximum
- 11 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.