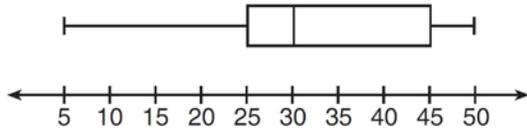
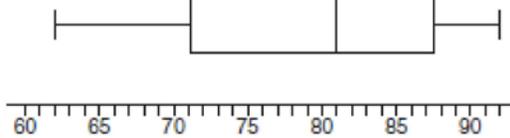


S.ID.A.1: Box Plots 2b

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

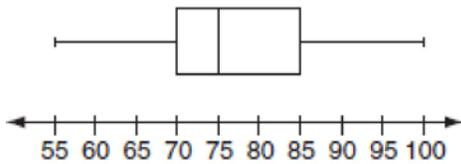


- 2 The accompanying diagram shows a box-and-whisker plot of student test scores on last year's Mathematics A midterm examination.



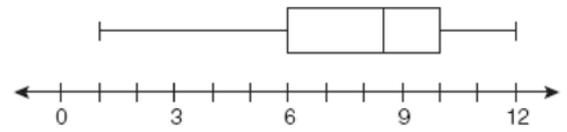
What is the median score?

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

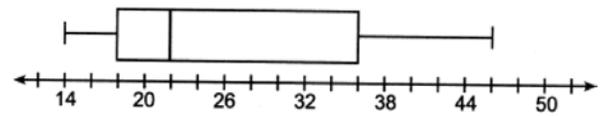


What is the median score?

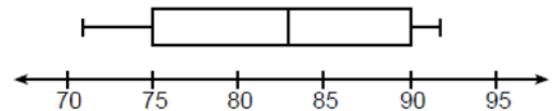
- 4 What is the value of the third quartile shown on the box-and-whisker plot below?



- 5 What is the value of the third quartile in the box plot shown below?

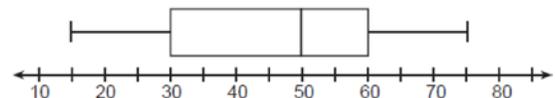


- 6 The box plot below summarizes the data for the average monthly high temperatures in degrees Fahrenheit for Orlando, Florida.



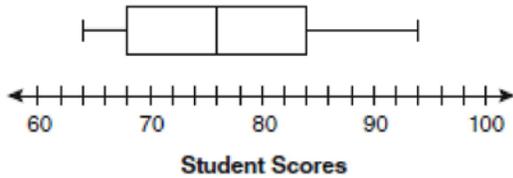
The third quartile is

- 7 A box plot is shown below.



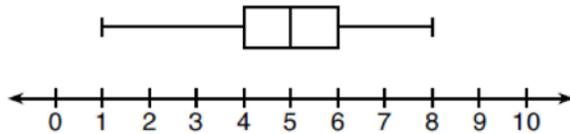
Which number represents the third quartile?

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

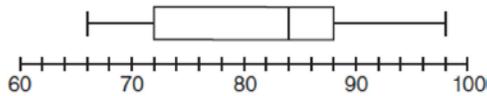


What is the value of the upper quartile?

- 9 What is the range of the box plot shown below?



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



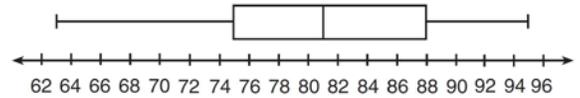
What percentage of the test scores are *less than* 72?

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



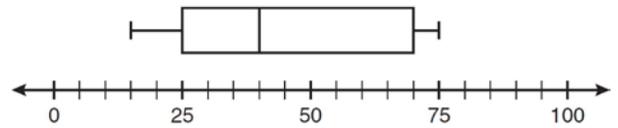
What percentage of these people are age 15 or older?

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

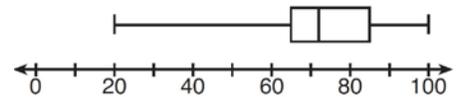


Which interval contains exactly 50% of the grades?

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

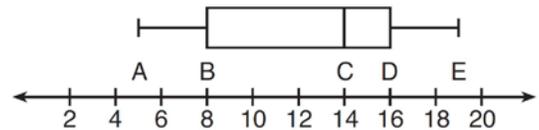


- 14 The box-and-whisker plot below represents the results of tests scores in a math class.



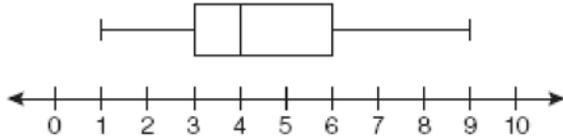
What do the scores 65, 85, and 100 represent?

- 15 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?

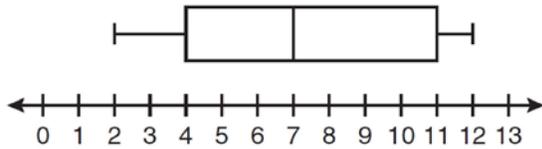
- 16 A movie theater recorded the number of tickets sold daily for a popular movie during the month of June. The box-and-whisker plot shown below represents the data for the number of tickets sold, in hundreds.



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.

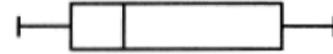
- 17 Based on the box-and-whisker plot below, which statement is *false*?



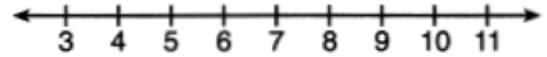
- 1) The median is 7.
- 2) The range is 12.
- 3) The first quartile is 4.
- 4) The third quartile is 11.

- 18 Below are two representations of data.

A: 2,5,5,6,6,6,7,8,9



B:



Which statement about A and B is true?

- 1) median of $A >$ median of B
- 2) range of $A <$ range of B
- 3) upper quartile of $A <$ upper quartile of B
- 4) lower quartile of $A >$ lower quartile of B

- 19 Which statistic can *not* be determined from a box plot representing the scores on a math test in Mrs. DeRidder's algebra class?

- 1) the lowest score
- 2) the median score
- 3) the highest score
- 4) the score that occurs most frequently

S.ID.A.1: Box Plots 2b**Answer Section**

1 ANS:

30

REF: 011512ia

2 ANS:

81

The median score is the vertical line in the center of the box.

REF: 010301a

3 ANS:

75

The median score is the vertical line in the center of the box.

REF: 060610a

4 ANS:

10

The value of the third quartile is the last vertical line of the box.

REF: 080818ia

5 ANS:

36

The value of the third quartile is the last vertical line of the box.

REF: 012306ai

6 ANS:

90

REF: 061805ai

7 ANS:

60

The value of the third quartile is the last vertical line of the box.

REF: 082307ai

8 ANS:

84

The value of the upper quartile is the last vertical line of the box.

REF: 060915ia

9 ANS:

7

 $8 - 1 = 7$

REF: 081915ai

10 ANS:
25

REF: 011001ia

11 ANS:
75

REF: 011220ia

12 ANS:
75-88

REF: 081312ia

13 ANS:
60
 $75 - 15 = 60$

REF: 011113ia

14 ANS:
 Q_1, Q_3 , maximum

REF: 061314ia

15 ANS:
first quartile, third quartile, maximum

REF: 011408ia

16 ANS: 4 REF: 010929ia

17 ANS: 2 REF: 081106ia

18 ANS: 3 REF: 062119ai

19 ANS: 4 REF: 081603ai