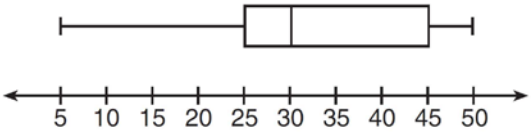
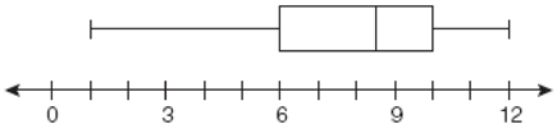
Name: _____

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

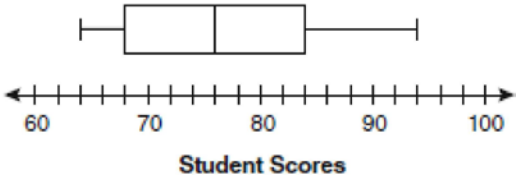
1 In the box-and-whisker plot below, what is the 2nd quartile?



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

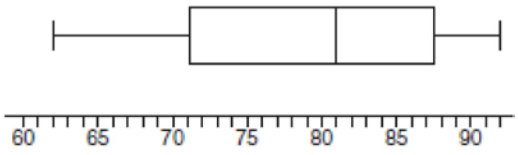


3 The box-and-whisker plot below represents students' scores on a recent English test.



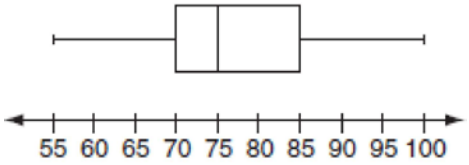
What is the value of the upper quartile?

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



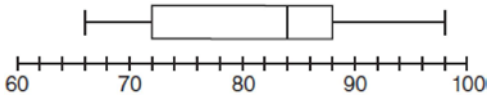
What is the median score?

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



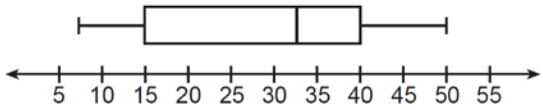
What is the median score?

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



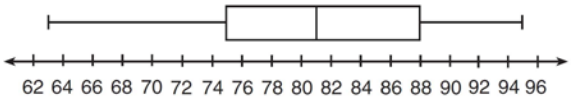
What percentage of the test scores are *less than* 72?

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



What percentage of these people are age 15 or older?

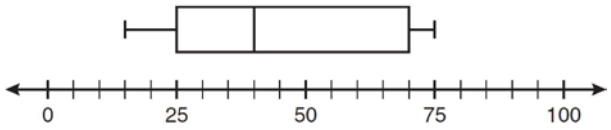
8 The box-and-whisker plot below represents a set of grades in a college statistics class.



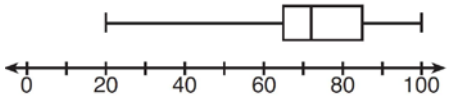
Which interval contains exactly 50% of the grades?

Name: _____

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

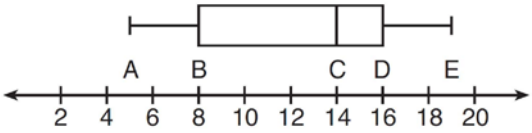


10 The box-and-whisker plot below represents the results of tests scores in a math class.



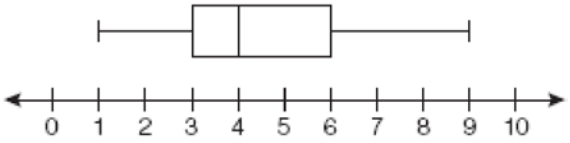
What do the scores 65, 85, and 100 represent?

11 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?

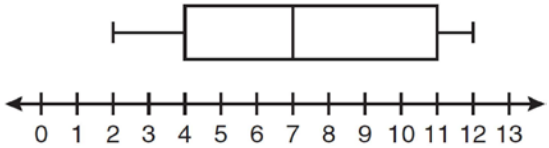
12 A movie theater recorded the number of tickets sold daily for a popular movie during the month of June. The box-and-whisker plot shown below represents the data for the number of tickets sold, in hundreds.



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.

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.

14 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:
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:
75-88

REF: 081312ia

9 ANS:
60
$75 - 15 = 60$

REF: 011113ia

10 ANS:
Q_1, Q_3, maximum

REF: 061314ia

11 ANS:
first quartile, third quartile, maximum

REF: 011408ia

12 ANS: 4 REF: 010929ia

13 ANS: 2 REF: 081106ia

14 ANS: 4 REF: 081603ai