

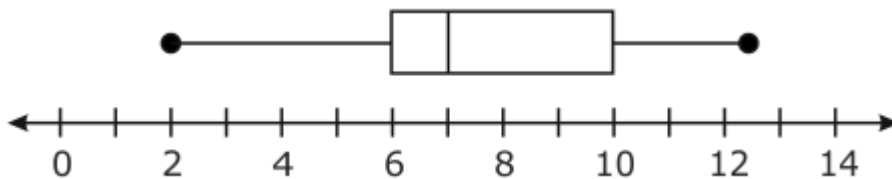
1. The Jackson Middle School cross country team is making a box plot of the time it takes each person on the team to run a mile, rounded to the nearest minute. The times are shown below.

11, 6, 8, 7, 7, 6, 9, 11, 9

Where should the vertical line representing the third quartile be?

- A 10
- B 9
- C 8
- D 6.5

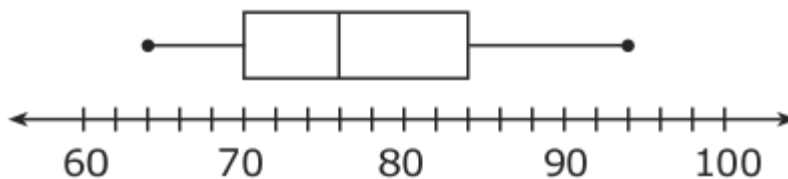
2. Addie recorded the number of goals scored in each soccer game this season. She created the box plot below using this data



What is the lower quartile of this data set?

- A 2
- B 6
- C 7
- D 10

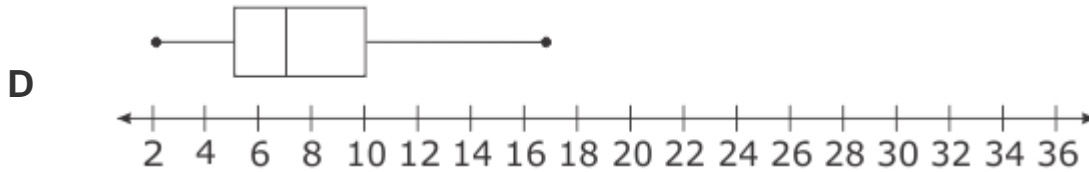
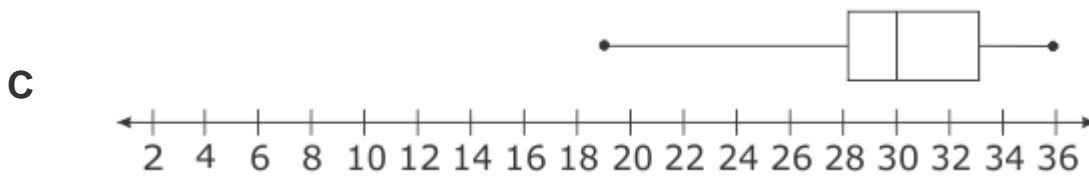
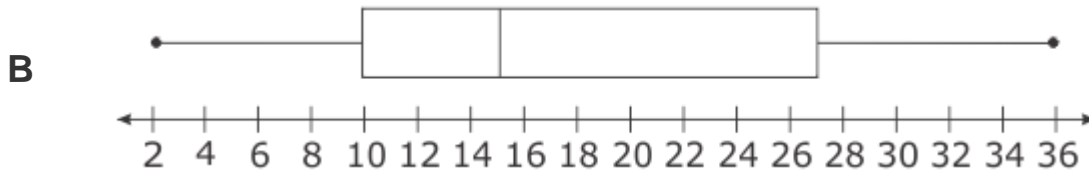
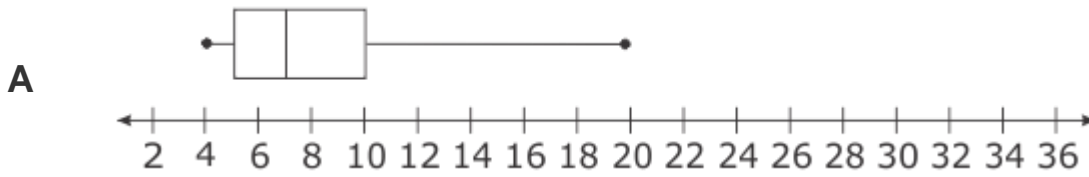
3. The box plot below displays the scores of a math test.



What is the median score of this test?

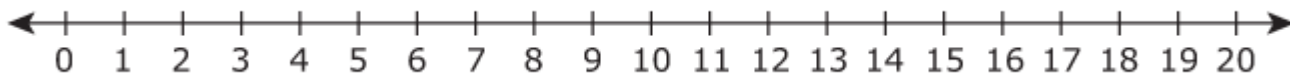
- A 70
- B 76
- C 84
- D 94

4. Which box plot has a range of 17 and an interquartile range of 5?



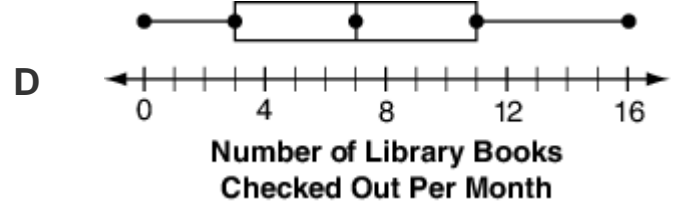
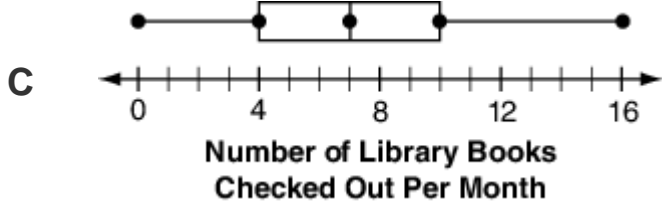
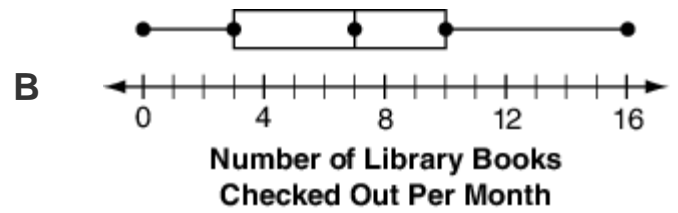
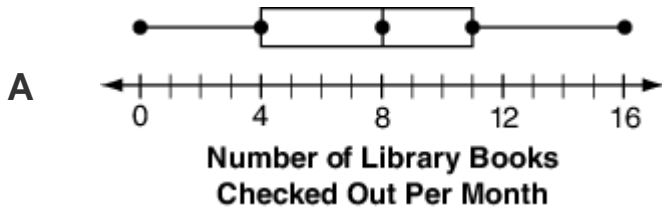
5. These data show the time, in numbers of hours, 10 people spent watching television in one week. Use the data and the number line to create a box plot.

15, 9, 1, 17, 7, 14, 13, 4, 16, 5



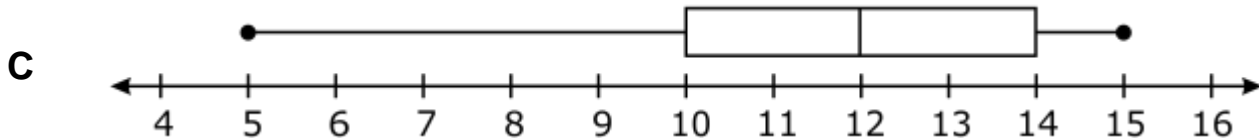
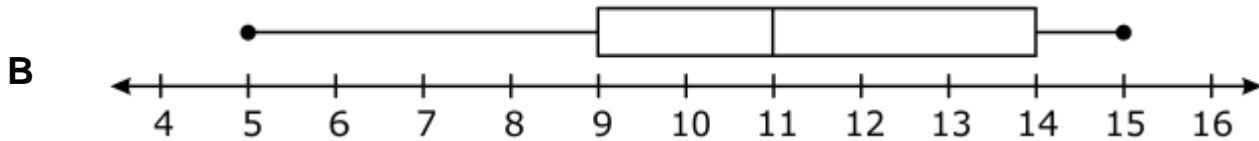
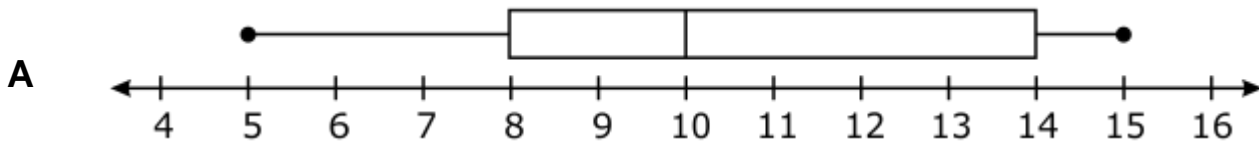
6. The list below displays the number of library books a group of students each checked out per month. Which box plot correctly displays this data?

4 0 2 10 11 4 3 10 7 16 8 2 8

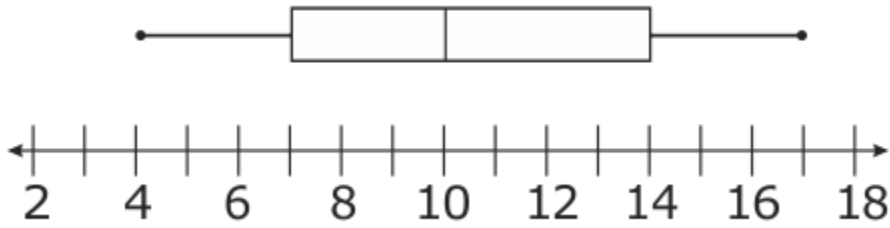


7. Jenny recorded the number of hours she spent working on homework each week for 8 weeks. Her data is shown below. Which box plot represents this data?

14, 10, 15, 10, 8, 5, 14, 12



8. Which value represents the upper quartile on the box plot below?



- A 10
- B 12
- C 14
- D 17

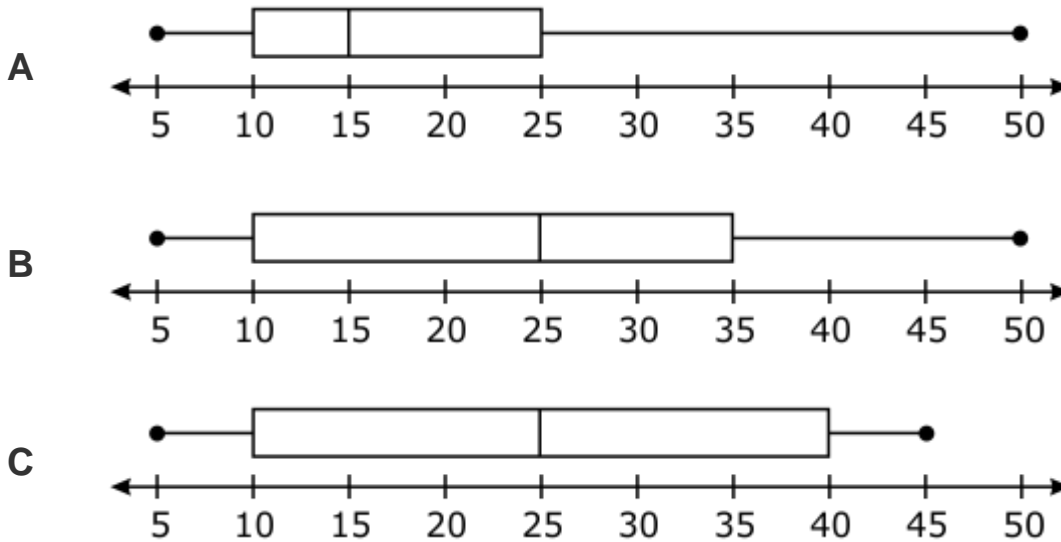
9. The box below displays the wait times for lines of various rides at an amusement park.

Wait Times (in minutes)										
30	15	45	0	60	25	40	35	50	20	50

Which box plot correctly displays the wait time data?

- A
- B
- C
- D

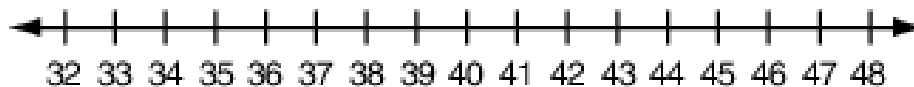
10. Which box plot has a median of 25, a lower quartile of 10, and a range of 45?



11. Andrew works in the produce department of the local grocery store. He was given the task of counting the number of apples in each bushel of apples that arrived to be sold. He made a list of the numbers below.

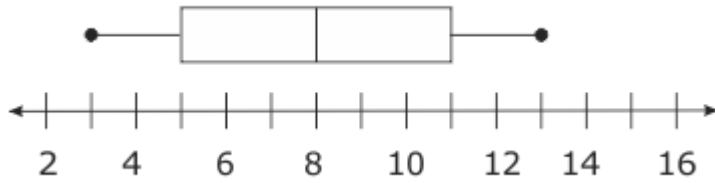
45 40 42 36 41 43 38 45 38 43 48 44 42 37 42 40 34 37 40 42 38

**Part A:** Construct a box plot on the number line below using the data collected by Andrew.



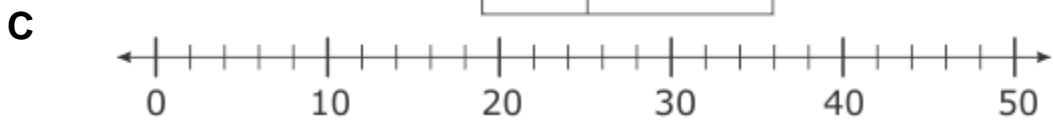
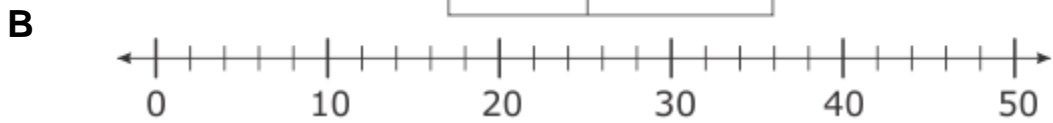
**Part B:** Andrew removed the 34 and 48 data points from the data. Which part(s) of the box plot from part A would change?

12. What is the range of the set of data used to create this box plot?

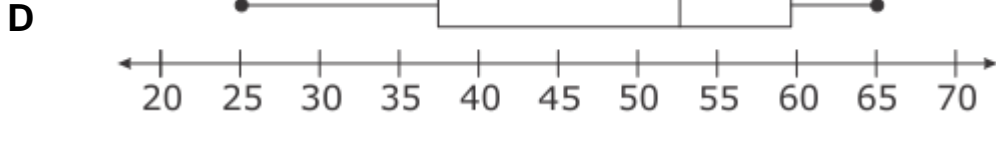
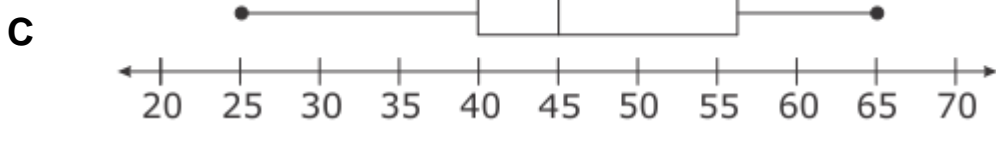
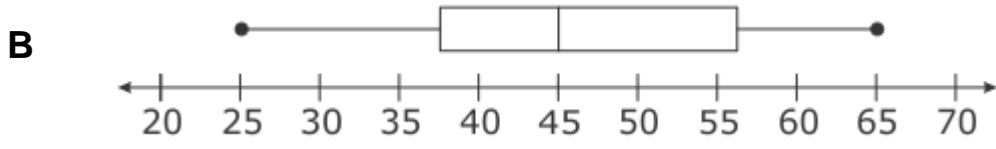
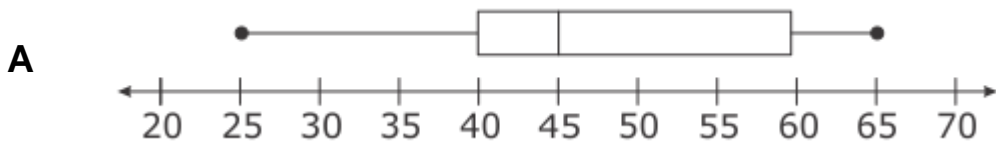


- A 4
- B 6
- C 8
- D 10

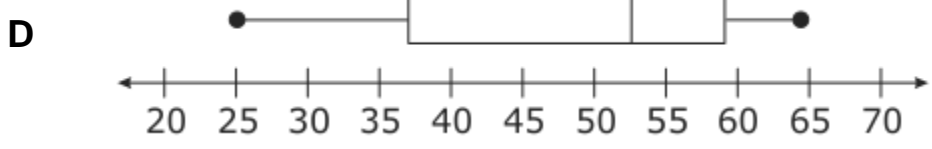
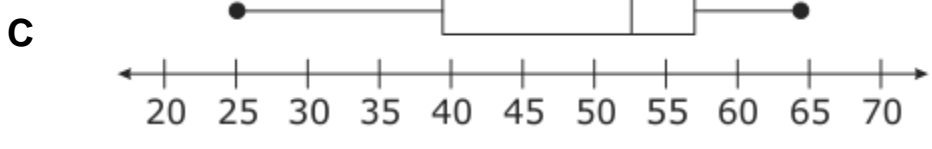
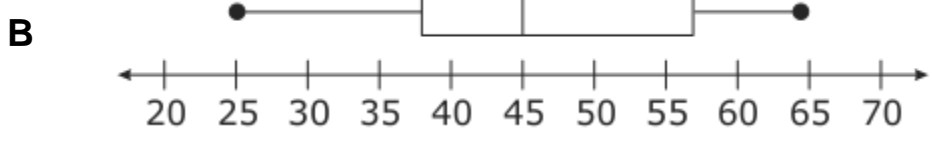
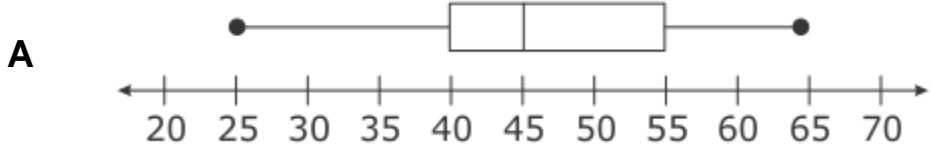
13. Which box plot represents a set of data with a median of 25, a range of 39, and an interquartile range of 17?



14. Which box plot has a median of 45, a lower quartile of 40, an upper quartile of 57, and a range of 40?



15. Which box plot represents a set of data whose median is 45 and interquartile range is 19?



16. Which statement best describes the data used to create the box plot shown below?



- A The mean of the data set is 4.
- B The majority of the data points lie between 3 and 9.
- C The data set has more values between 9 and 15 than it does between 1 and 3.
- D There are as many data points between 3 and 4 as there are between 4 and 9.

17. The data below shows the ages, in years, of 8 cars at a used car lot.

{7, 8, 10, 10, 12, 12, 14, 17}

What is the lower quartile for this data set?

- A 8
- B 9
- C 10
- D 11

18. Mr. Clark counted the number of people who used the information desk at the mall each day for 10 days. He recorded the data below.

{23, 26, 29, 33, 44, 48, 55, 55, 59, 74}

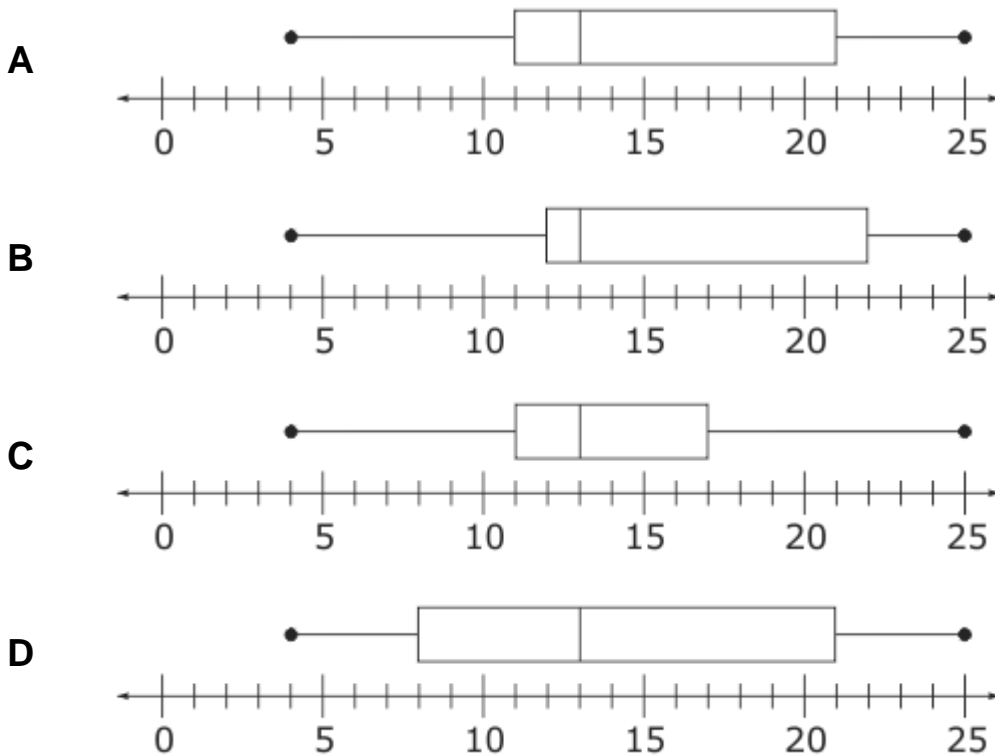
What is the lower quartile value of these data?

- A 23
- B 26
- C 29
- D 46



19. Which box plot represents the data below?

21, 4, 11, 17, 13, 25, 12, 21, 13, 8, 11, 22



20. On Monday, Adam recorded the high temperatures (in °F) for some cities around the United States. His data is listed below.

84, 92, 79, 99, 86, 93, 88, 83, 92, 100, 79, 75, 79, 96

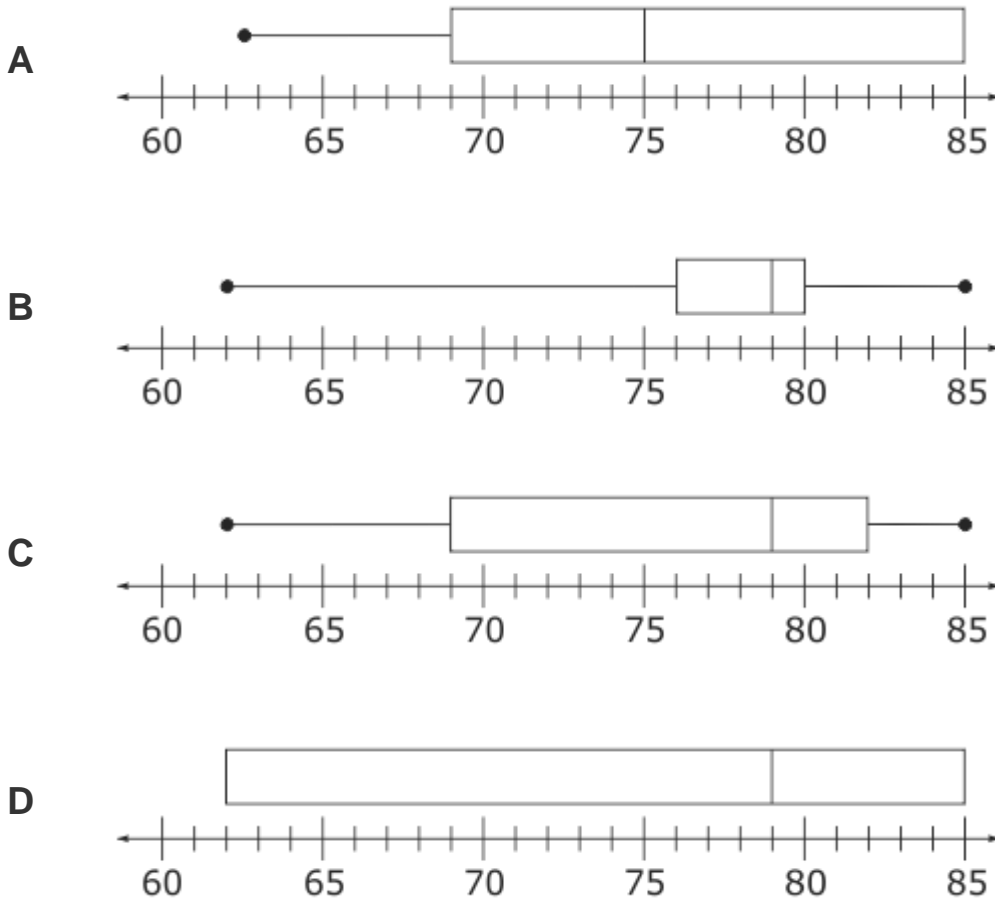
Adam is creating a box plot with the data. What is the upper quartile of these temperatures?

- A** 87°F
- B** 92°F
- C** 93°F
- D** 100°F

21. A doctor recorded the weights of 10 children, ages 9 to 11, for a research study.

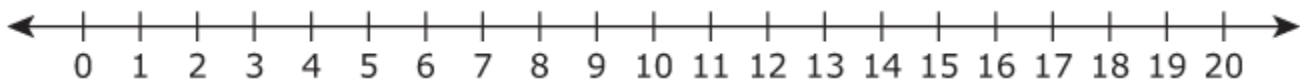
Weights of 10 Children (pounds)									
79	85	62	83	76	80	79	69	82	68

Which box plot represents this data?



22. These data show the time, in numbers of hours, 10 students spent playing video games in one week. Use the data and the number line to create a box plot.

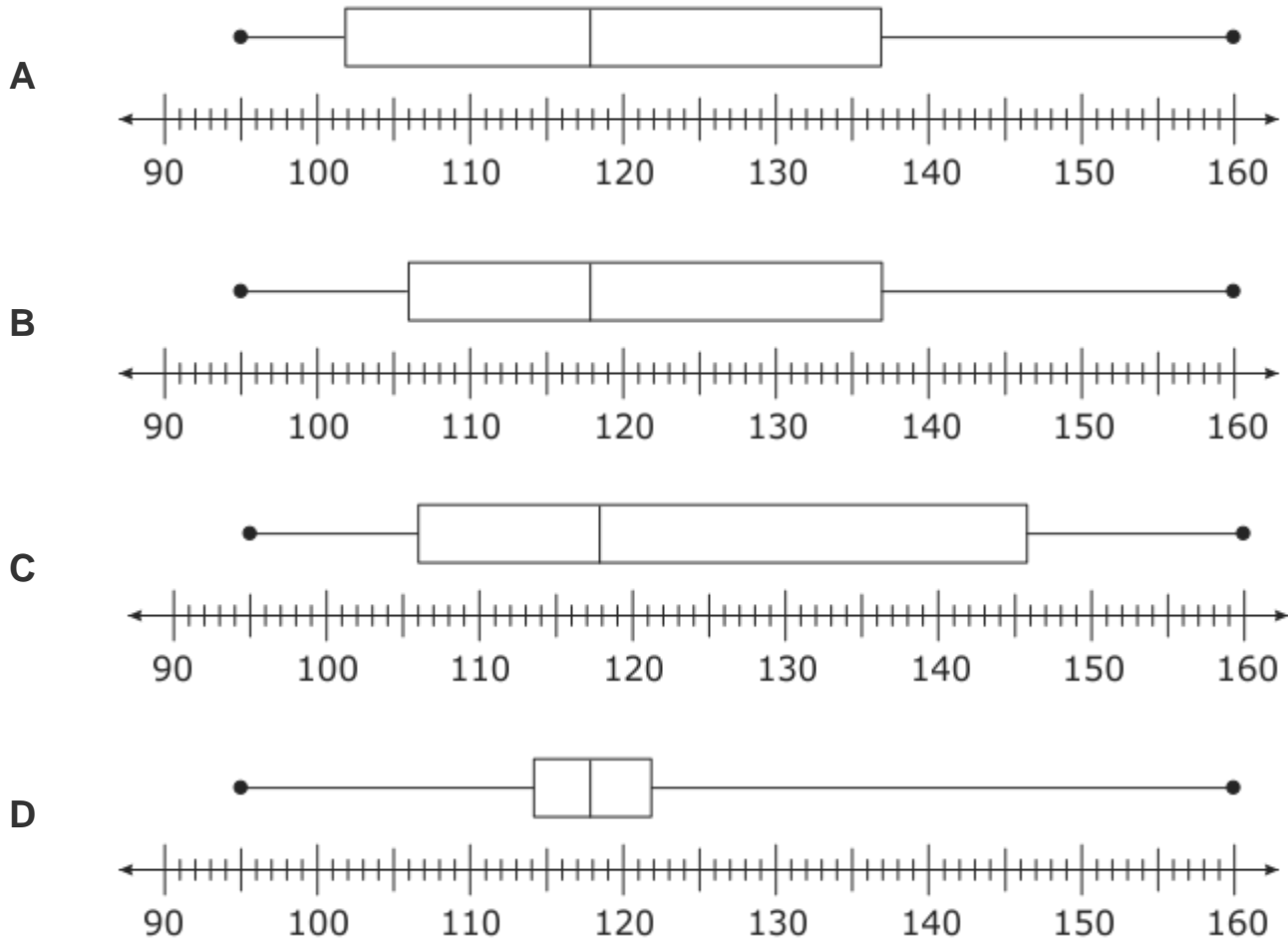
17, 9, 1, 19, 8, 16, 15, 5, 18, 6



23. Mrs. Moore recorded the number of candy bars 10 students sold for the school fundraiser.

114	95	137	106	155	122	98	111	136	160
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Which box plot represents this data?



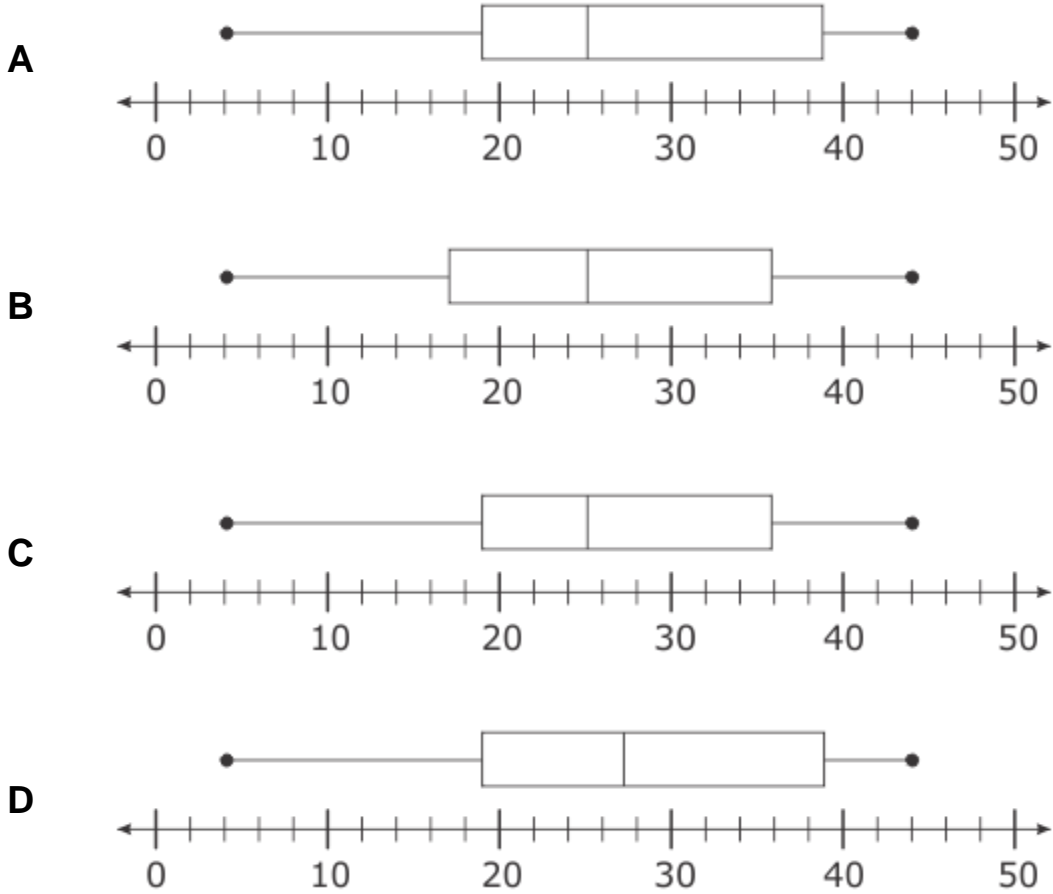
24. Mr. Ray's math class earned these scores on a quiz.

99, 98, 95, 95, 87, 87, 78, 73, 72, 70

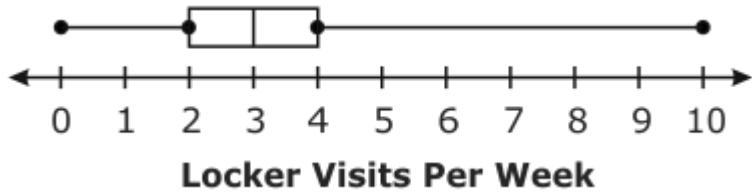
If a box plot was created with this data, what are the upper and lower quartiles?

- A 95 and 73
- B 95 and 87
- C 96 and 72
- D 99 and 70

25. Which box plot represents a set of data with a maximum of 44, a median of 25, and an upper quartile of 39?



26. A teacher asks students the number of times they visit their locker in a week. She created the box plot below with the data.

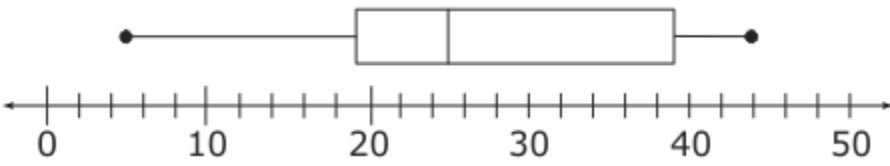


What is the upper quartile on the box plot?

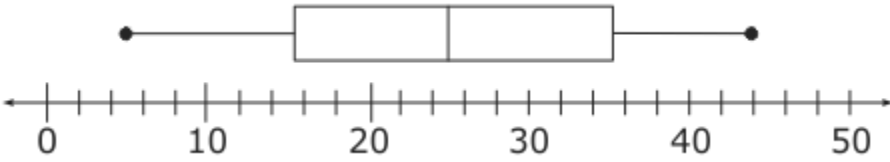
- A** 3
- B** 4
- C** 7
- D** 10

27. Which box plot represents a set of data with a range of 39, a median of 25, and an interquartile range of 16?

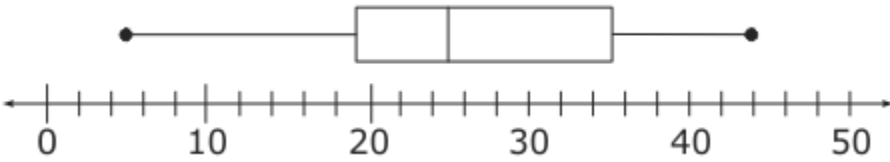
A



B



C



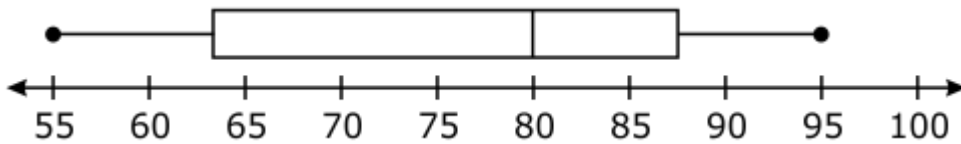
D



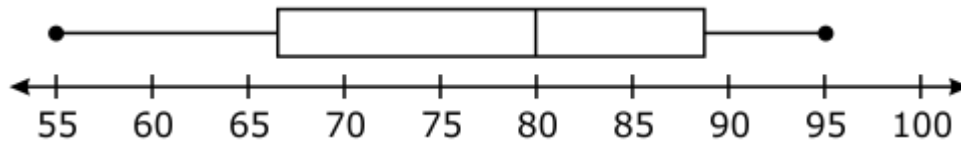
28. Jesse recorded the number of points his favorite basketball team scored for eight games. The data is shown below. Which box plot represents this data?

66, 88, 77, 95, 60, 55, 83, 86

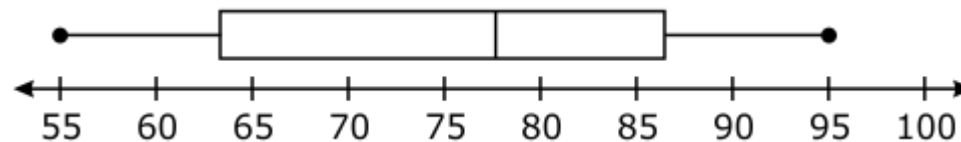
A



B



C



**29.** Alex listed her math grades for the first nine weeks.

99, 55, 69, 72, 81, 94, 92, 77, 75, 79, 85, 81, 85, 81, 81

What is the lower quartile of Alex's data set?

- A** 69
- B** 72
- C** 75
- D** 77