

LESSON
4-4

Practice B
Variability

Find the range and the first and third quartiles for each data set.

1. 37, 48, 56, 35, 53, 41, 50

range: _____

first quartile: _____

third quartile: _____

2. 18, 20, 34, 33, 16, 44, 42, 27

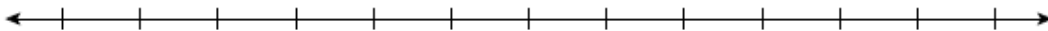
range: _____

first quartile: _____

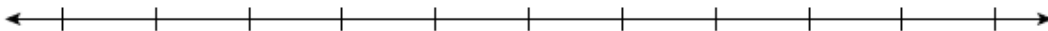
third quartile: _____

Use the given data to make a box-and-whisker plot.

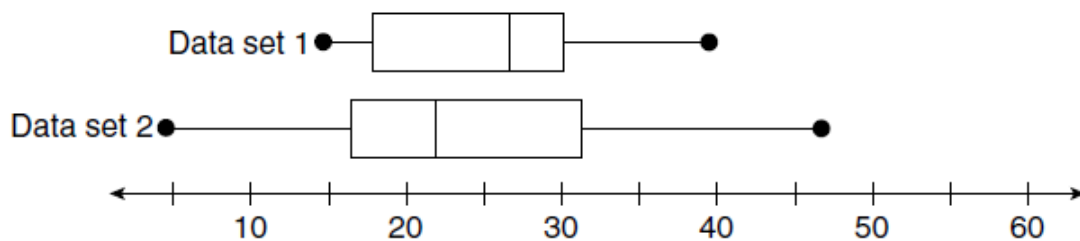
3. 55, 46, 70, 36, 43, 45, 52, 61



4. 23, 34, 31, 16, 38, 42, 45, 30, 28, 25, 19, 32, 53



Use the box-and-whisker plots to compare the data sets.



5. Compare the medians and ranges.

6. Compare the ranges of the middle half of the data for each.

LESSON
4-4 **Problem Solving**
Variability

Write the correct answer.

1. Find the range of the data.

2. Find the first and third quartiles of the data.

3. Make a box-and-whisker plot of the data.



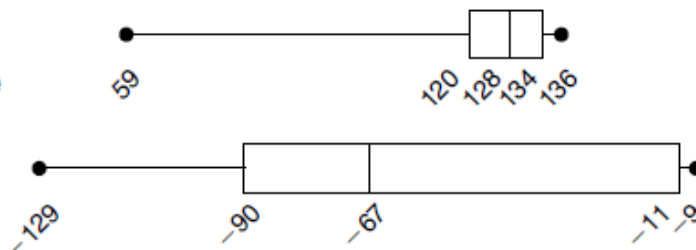
Super Bowl Point Differences

Year	Point Difference
2001	27
2000	7
1999	15
1998	7
1997	14
1996	10
1995	23
1994	17
1993	35
1992	13

The box-and-whisker plots compare the highest recorded Fahrenheit temperatures on the seven continents with the lowest recorded temperatures. Choose the letter for the best answer.

4. Which statement is true?

- A The median of the high temperatures is smaller than the median of the low temperatures.
- B The range of low temperatures is greater than the range of high temperatures.
- C The range of the middle half of the data is greater for the high temperatures.
- D The median of the high temperatures is 49°F .



5. What is the median of the high temperatures?

- F 128°F
- G 120°F
- H -67°F
- J -90°F

6. What is the range of the low temperatures?

- A 77°F
- B 79°F
- C 120°F
- D 129°F