Interpreting Box and Whisker Plots

Box

Whisker   Whisker

Min   Lower   Upper   Max
          Quartile   Median   Quartile
          Q1   Q2   Q3
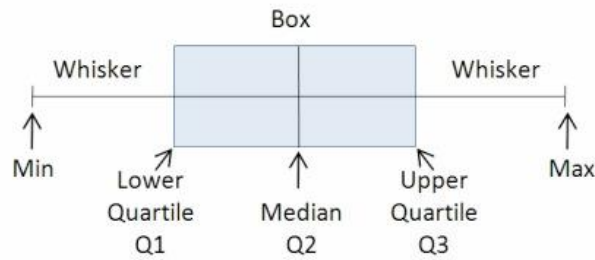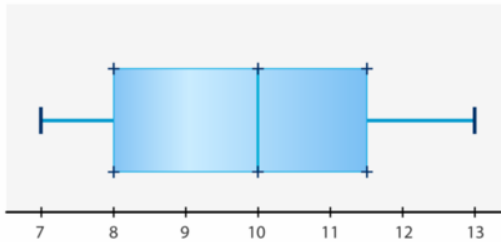
Analyze each Box and Whisker plot and answer the questions that follow.

1)

Sled Dogs

7   8   9   10   11   12   13

Minimum: Maximum: Range:

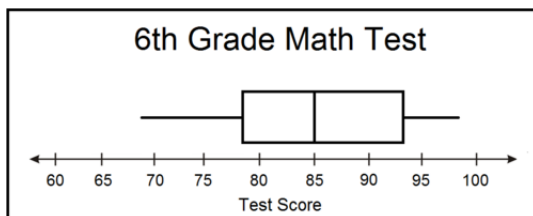Q1:   Median: Q3:

What percentage of racers returned with more than 8 dogs?

What percentage of racers returned with more than 10 dogs?

What percentage of racers returned with fewer than 8 dogs?

2)

6th Grade Math Test

60   65   70   75   80   85   90   95   100
Test Score

Minimum: Maximum: Range:

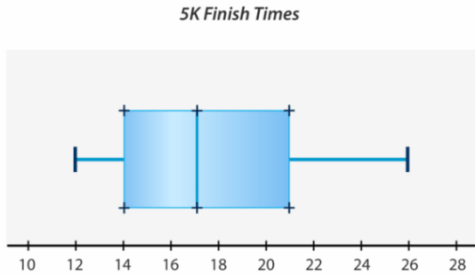Q1:   Median: Q3:

What percentage of students scored above an 85%?

What percentage of students scored above a 93%?

What percentage of students scored below a 78%?

3)

5K Finish Times

Minimum: Maximum: Range:

Q1:   Median: Q3:

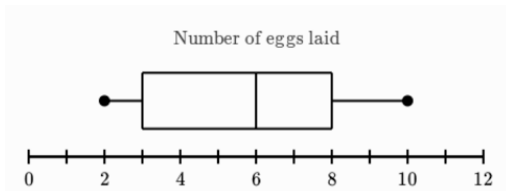What was the time of the winner of the race?

What was the time of the runner that came in last?

What percentage of runners finished the race with a time better than 14 minutes?

What percentage of runners finished with a time slower than 14 minutes?

What percentage of runners finished with a time of 26 minutes or faster?

4)

Number of eggs laid

Minimum: Maximum: Range:

Q1:   Median: Q3:

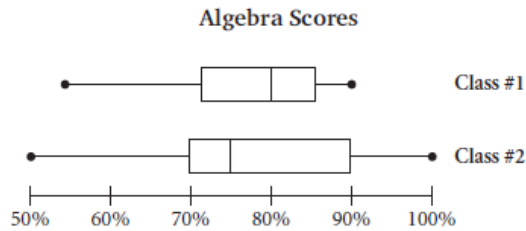What percentage of chickens laid more than 3 eggs?

What percentage of chickens laid more than 8 eggs?

What percentage of chickens laid 10 eggs or fewer?

What percentage of chickens laid between 3 and 8 eggs?

Why is the first whisker shorter than the last whisker?

5)

Algebra Scores

Class #1

Class #2

Class #1		
Minimum:	Maximum:	Range:
Q1:	Median:	Q3:

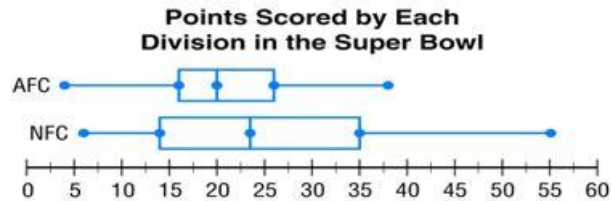| Class #2		
Minimum:	Maximum:	Range:
Q1:	Median:	Q3:

Which class had a higher median score?

Which class had a higher maximum score?

Which class had a larger range in scores?

Which class had 75% of its students scoring above a 70%?

6)

Points Scored by Each Division in the Super Bowl

AFC		
Minimum:	Maximum:	Range:
Q1:	Median:	Q3:

NFC		
Minimum:	Maximum:	Range:
Q1:	Median:	Q3:

Which division had a higher median number of points?

Which division had a higher minimum number of points?

Which division had a larger range in points?

In which division did the team score more than 35 points in 25% of the games?