

1A.7 Learning Opportunity

Box and Whisker Plots



Name: _____

You **will** be asked to create a box and whisker plot and to calculate interquartile range on your upcoming test. This is a difficult topic. In addition to today's notes, you may want to refer back to this assignment when you study for your upcoming test.

- 1) Make a double box-and-whisker plot for these bowling scores:

Herman's scores: 200, 101, 162, 273, 149, 153, 146, 125, 118, 129, 135, 142, 111, 156

Samantha's scores: 114, 162, 200, 260, 149, 140, 146, 125, 172

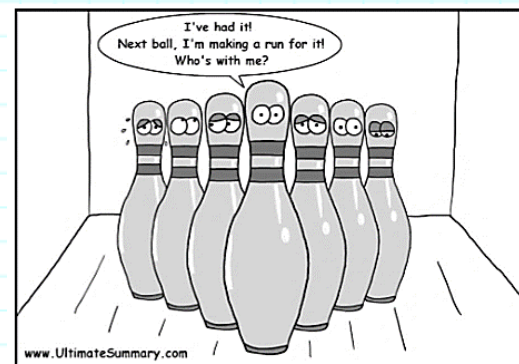


- 2) Who had the higher median score?
- 3) What is the range of each bowler's scores?

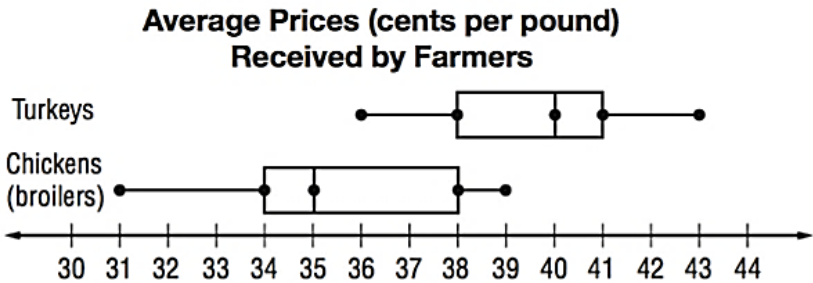
What does range tell you about the data?

- 4) What is the interquartile range for each bowler?

What does interquartile range tell you about the data?



Use the box and whisker plot below to answer the questions that follow.



- 5) Compare the range of prices for chickens and turkeys. Which had the greater range? By how many cents per pound?
- 6) Which bird has more predictable prices, chicken or turkey?
- 7) What percent of turkey prices is greater than the third quartile (Q3 value) of the chicken prices?

Match each description below with the most reasonable box and whisker plot:

- 8) Number of kittens in a litter.
- 9) Resting heart rates (beats per minute)
- 10) Prices of 40-inch TV sets (\$)
- 11) Ages at a Boy Scout meeting

