Olympic Swimming and Gymnastic Medalists
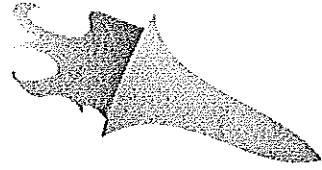
Name: _____
Hour: _____

Directions: On the same scale, make box and whisker plots for Olympic Swimmers and Gymnastics medalists.

Olympic Swimmers

Olympian	Medals
Dara Torres	12
Janet Evans	5
Brooke Bennett	3
Amanda Beard	7
Angel Martino	6
Jenny Thompson	12
Katie Ledecky	1
Amy Van Dyken	6
Summer Sanders	4
Anita Nall	3
Natalie Coughlin	12
Dana Vollmer	4

Five-Number Summary
Minimum: _____
Maximum: _____
Median: _____
Lower Quartile: _____
Upper Quartile: _____

Olympic Gymnasts

Olympian	Medals
Shannon Miller	7
Gabby Douglas	2
Shawn Johnson	4
Mary Lou Retton	5
Dominique Dawes	4
Nastia Liukin	5
Kerri Strug	2
Carly Patterson	3
Mohini Bhardwaj	1
Aly Raisman	3
Amy Chow	3
Annia Hatch	2
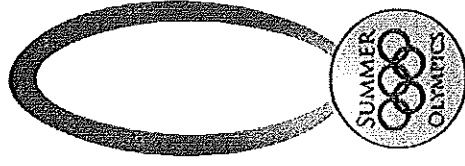
Five-Number Summary
Minimum: _____
Maximum: _____
Median: _____
Lower Quartile: _____
Upper Quartile: _____

```
 |———————————————————————————————————————|
 0   1   2   3   4   5   6   7   8   9   10   11   12
```
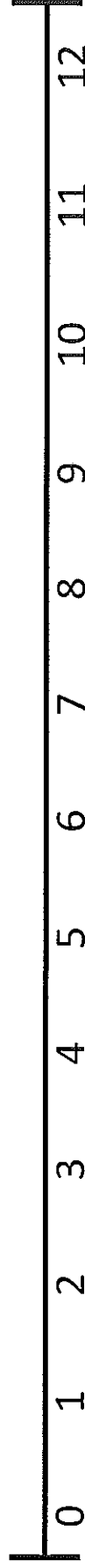
Compare the two sets of data. What conclusions can you make about the data?

_____

_____

Olympic Swimming & Gymnastic Medalists
Box & Whisker Plot Analysis

1) What data point do both sets of data share?

2) What is the difference between the two interquartile ranges?
   What does this reveal about swimmer versus gymnast
   medalists?

3) What is the difference between the ranges of the two groups?

4) What could be the reason for the differences in the two box
   and whisker plots?