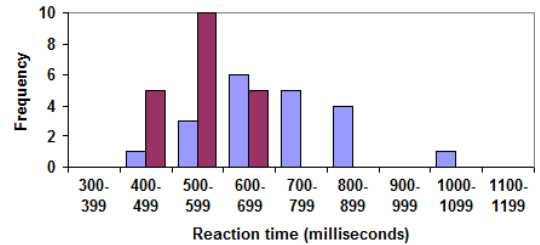
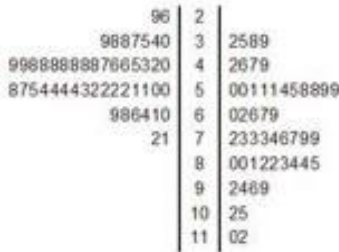
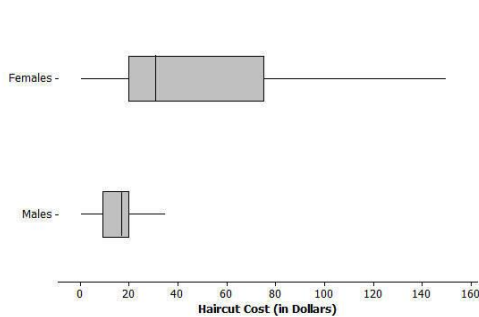


Algebra P4  
Homework #58

## Comparing Data Sets



Comparative Boxplots

Back-to-back Stem and Leaf Plot

Comparative Histograms

For the comparative boxplots, this is how you compare the two data sets

The center of the haircut cost for women is higher than the cost for men (median \$38 vs. \$18)

The cost of haircuts for women is much more spread out than that for men (range \$155 vs. \$33).

The data for women's haircuts is skewed right, while the data for men's haircuts is more symmetric.

You can use any center or spread statistics you want. Or none at all if I say that's okay!

1. Here are two data sets, the last six bowling scores for Pat and Mark. Compare the two data sets by making two graphs that you could use to compare them, then describe the differences in center, shape and spread. Use at least one measure of center and one of spread to compare them.

Pat: 157, 148, 150, 140, 160, 167

Mark: 180, 175, 165, 195, 185, 170

2. Here are two data sets, showing the potato yields for two different brands of fertilizers (in lbs per grid square). Compare the two data sets by making two graphs that you could use to compare them, then describe the differences in center, shape and spread. Use at least one measure of center and one of spread to compare them.

Fertilizer A: 32, 26, 16, 22, 29, 40, 41, 36, 22, 25, 26, 28, 19, 30, 36, 32, 35, 25, 26, 18

Fertilizer B: 18, 20, 21, 25, 16, 15, 24, 23, 18, 25, 19, 30, 28, 22, 21, 16, 29, 22, 23, 25

3. Here are two data sets, one for the height of football players and the other for the height of basketball players. Compare the two data sets by making two graphs that you could use to compare them, then describe the differences in center, shape and spread. Use at least one measure of center and one of spread to compare them.

Height of Football Players (ft): 6.33, 6.5, 6.5, 6.25, 6.5, 6.33, 6.25, 6.17, 6.42, 6.33, 6.42, 6.58, 6.08, 6.58, 6.5, 6.42, 6.25, 6.67, 5.91, 6, 5.83, 6, 5.83, 5.08, 6.75, 5.83, 6.17, 5.75, 6, 5.75, 6.5, 5.83, 5.91, 5.67, 6, 6.08, 6.17, 6.58, 6.5, 6.25, 6.33, 5.25, 6.67, 6.5, 5.83

Height of Basketball Players (ft): 6.08, 6.58, 6.25, 6.58, 6.25, 5.92, 7, 6.41, 6.75, 6.25, 6, 6.92, 6.83, 6.58, 6.41, 6.67, 6.67, 5.75, 6.25, 6.25, 6.5, 6, 6.92, 6.25, 6.42, 6.58, 6.58, 6.08, 6.75, 6.5, 6.83, 6.08, 6.92, 6, 6.33, 6.5, 6.58, 6.83, 6.5, 6.58