

Attendance Quiz 15

Name: _____ Date: _____

1. A medical researcher wants to determine whether male pulse rates vary more or less than female pulse rates. Using the sample pulse rate in Data Set 1 in Appendix B, the male pulse rate can be summarized with the statistic $n = 15$, $\bar{x} = 69.4$, $s = 11.3$. For females, the statistics are $n = 41$, $\bar{x} = 76.3$, $s = 12.5$.

(a) Construct a 95% confidence interval estimate of the population standard deviation σ of pulse rate for males.

(b) Construct a 95% confidence interval estimate of the population standard deviation σ of pulse rate for females.