

Show all work. 10 points each.

1. Using the Movie.xls data set find the mean and standard deviation for the **Length**. Chebyshev's Theorem states, **at least** 75% of the data falls within two standard deviations of the mean. Find those two values and the exact amount of data that is between them.

2. Find the interquartile range (IQR) for the same data set and determine if the data set has any outliers.