Intro to Stats Practice Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Applications of Chebyshev’s Theorem Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Do problems 32, 33, and 35-40 below. CHALLENGE: try 34, 41, or 42.

Some helpful formulas:



The lower bound of a range obtained using Chebyshev’s Theorem is

$$ \overbar{X}-ks$$

where $\overbar{X}$ is the mean, *s* is the standard deviation, and *k* is a number greater than 1.

