Math 3070 § 1.   **First Quiz**   Name:_____

Treibergs   Aug. 29, 2012

This is an open book exam. You are allowed to use your text, written
notes and a calculator. Other books, laptops, PDA's, phones and text
messaging devices are prohibited. Give complete explanations to
receive full credit. There are [30] total points.

_____/30

Descriptive statistics.

a. [1] Choose six more two digit numbers between 11 and 20. Make sure that your choices contains at least four distinct values. Everyone in the class should have a different list of ten numbers! [Hint: It would help if your numbers are sorted in increasing order!]

1	10							21	99

b. [12] Find the sample mean $\bar{x}$, the 20% trimmed mean $\bar{x}_{\mathrm{tr}(.20)}$ and the sample variance s^2 of your ten number sample from part (a.).

$\bar{x} =$	$\bar{x}_{\mathrm{tr}(.20)} =$	$s^2 =$

b. [12] Find the lower fourth, median and upper fourth of your sample from part (a.).

Lower Fourth $=$	$\tilde{x} =$	Upper Fourth $=$

c. [5] Are any of the numbers in part (a.) extreme outliers? Explain.