Math	3070	δ	1.
Treibe	eros		

## First Quiz

Name:\_\_\_\_\_\_\_ January 16, 2008

This is an closed book test. For this quiz, no books papers or laptops are permitted. Calculators are permitted. You must justify your answers to receive full credit.



Descriptive statistics. Consider the sample

13 21 23 25 37 55 42 67 71 71 83

a. [25] Find the sample mean  $\bar{x}$ , the sample median  $\tilde{x}$  the sample variance  $s^2$  and the sample fourth spread  $f_s$  of the given sample.

$\left  ar{x} = \right  \left  ar{x} = \right  \left  s^2 = \right  \left  f_s = \right $	=	$  \tilde{r}  $	$s^2 =$	$f_s =$
---	---	-----------------	---------	---------

b. [5] Are any of your numbers outliers? Extreme outliers? Explain.