Name:

The ages of 10 most powerful women in U.S. are given below.

 $43,\!58,\!35,\!43,\!48,\!51,\!43,\!51,\!58,\!50$

1. Find the mean, median and mode.

2. Find the range.

3. Find the variance and standard deviation.

[x	f	$x-ar{x}$	$(x-\bar{x})^2$	$(x-\bar{x})^2 f$
	\sum				
l					

4. Find the coefficient of variation.

- 5. In a survey conducted by the national center for health statistics, the sample mean height of women in United States (ages 20-29) was 64.2 inches, with a sample standard deviation of 2.9 inches. Estimate the percent of women whose heights are between 58.4 inches and 70 inches if
 - (a) the distribution of women's heights is normal.

(b) the distribution of women's heights is not known.

- 6. For Problem 5, find the values of $\bar{x} \pm s$, $\bar{x} \pm 2s$, and $\bar{x} \pm 3s$.
- 7. For problem 5, find the z-score for 55.5, 58.4, 61.3, 64.2, 67.1, 70, and 72.9. Show them on a graph of standard normal distribution.