1. Let data set $A = \{5, 6, 8, 8, 10, 11\}$ and data set $B = \{2, 4, 8, 8, 9, 17\}$. Determine the mean, median and mode for each of the data sets. What do you notice? Are the two data sets equal?

2. Joe scored 72, 76, and 80 on 3 hour exams. (a) What did Joe score on the fourth exam in order to raise his mean score to 81? (b) What was Joe's median score on the four exams? (c) Would Joe prefer that his instructor use the median rather than the mean when determining Joe's grade in the course?

3. Calculate the mean and median for the following grouped data.

X	6	8	10	14
\overline{f}	4	7	9	6

(x is the data value and f is the frequency,)

mean _____

median _____

4. The following statement appeared in the 4/27/06 issue of Advocate, "By graduation, the average MSUM senior this year will have accumulated \$23,360 in debt." There are several questions that need to be answered before this statement can be interpreted correctly. What are those questions?

5. Construct a box-and-whisker plot for the following data set.

21, 24, 15, 40, 18, 31, 26, 41, 23, 18, 44, 27, 36, 20, 43

6.	Recall that on the last worksheet the data sets $A=\{5, 6, 8, 8, 10, 11\}$ and $B=\{2, 4, 8, 8, 9, 17\}$ had common measures of central tendencies. Calculate the range and standard deviation of each of the data sets.								
							range (A) =		
							range (B) =		
							$\mathbf{S}_A = \underline{\hspace{1cm}}$		
							$S_B = \underline{\hspace{1cm}}$		
3.	Calculate the	mean an	d standard	d deviation fo	or the following	g grouped data. Fi	rst complete the table.		
	x	f				$(x-\overline{x})^2 \cdot f$	•		
	1	2					_		
	3	3							
	4	10							
	5	4							
	9	1							
	. 						_		
	Sum								
						C4	Mean =		
1	Calculate the	maan et	andard da	viation and a	coefficient of v		lard Deviation = en frequency distribution.		
4.		. 1	1		$(x-\overline{x})^2$	_	en frequency distribution.		
	<u>x</u>	f	xf	$x-\overline{x}$	(x-x)	$(x-\overline{x})^2 \cdot f$			
	8	3							
	9	2							
	10	1							
	11	2							
	12	3							
							Mean =		
						Stand			
						Stant			

Coefficient of Variation = _____