

You **MUST** use good notation **Math 102** Name \_\_\_\_\_  
and show appropriate work. (Section 14.2)

**Measures of Central Tendency**

1. Let  $A = \{5, 6, 8, 8, 10, 11\}$  and  $B = \{2, 4, 8, 8, 9, 17\}$ . 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. What must Joe score on the fourth exam to raise the mean score to 81? What was Joe's median score on the four exams? Would Joe prefer that his instructor use the median rather than the mean when determining Joe's grade in the course?
3. Mary had a mean score of 78 on 5 exams. What score did Mary get on exam number 6 if her new mean became 76?

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

$x$	6	8	10	14
$f$	5	8	9	4

( $f$  is the frequency).

mean \_\_\_\_\_

median \_\_\_\_\_

5. The following statement appeared in the 4/27/06 issue of the *Advocate*.  
"By graduation, the average MSUM senior this year will have accumulated \$23,360 in debt."  
What do you think this is saying?