Kerry Ojakian's MTH 23.5 Class
Class Assignment #2

Some statistics questions. Continue **without** a calculator or Excel.

1. The mean of the data: $4, 2, 64$.
2. The median of the data: $7, 1, 9$.
3. The mode of the data: 5, 1, 3, 5, 1, 3, 5, 9.
4. The median of the data: $27, 20, 2, 10$.
5. If data has 7 items, in rows $1, 2, \ldots, 7$ (in order), what item(s) do you need to get the median?
6. If data has 8 items, in rows $1, 2, \ldots, 8$ (in order), what item(s) do you need to get the median?
7. If data has 101 items, in rows $1, 2, \ldots, 101$ (in order), what item(s) do you need to get the median?
8. If data has 100 items, in rows $1, 2, \ldots, 100$ (in order), what item(s) do you need to get the median?

9. Write an arithmetic expression (**without** calculating!) for the mean of $55, 78, 1003, 78$.

10. If X is the data: $5, 10, 0, 25$, find $\overline{X}$.

11. If X is the data: $7, 7, 1, 3$, find $\sum X$.

Use Excel to compute the following (write the Excel command you use AND the result).

12. Suppose a population has the following heights (in feet): $5.7, 6.0, 5.9, 6.0, 5.75$. Find μ (i.e. the mean).

13. Consider the data Y: $47, 86, 99, -34, 87, 87$. Find $\sum Y$ and $\overline{Y}$.

14. Find the mean of $1001, 8, 9, 15, 7, 9, 8, 9$

15. Find the median of $1001, 8, 9, 15, 7, 9, 8, 9$ (same data as last problem)

16. Consider the last two problems - which better represents the data, the mean or the median?