## Kerry Ojakian's MTH 23.5 Class Class Assignment #2C

Without a calculator or Excel, calculate the following.

| 1. $8 =$           | 15. $ 5-3  =$  |
|--------------------|--|
| 2. $2 =$           | 16. $ 3-5  =$  |
| 3. $ 12.37  =$     | 17. $20 \div 5 =$  |
| 4. $ -1  =$        | 18. $-20 \div 5 =$                                       |
| 5. $ 33  =$        | 19. $\frac{10}{-2} =$                                    |
| 6. $ 0  =$         | 20. $\frac{-10}{-2} =$                                   |
| 7. $3 + 5 =$       | -2 21. 787 · 0 =   |
| 8. $5 + 3 =$       |  |
| 9. $3 \cdot 5 =$   | 22. $999 + 547 + (-999) =$<br>22. $408 + 647 + (-407) =$ |
| 10. $(5)(3) =$     | 23. $498 + 647 + (-497) =$                               |
| 11. $-3 \cdot 5 =$ | 24. $3 + 2 + 4 + 1 =$                                    |
| 12. $(-5)(-3) =$   | 25. $3 - 2 + 5 + (-7) =$                                 |
| 13. $5 - 3 =$      | 26. $\frac{4+2+2+4}{2} =$                                |
| 14. $3 - 5 =$      | 27. $\frac{4+2+2+4}{4} =$                                |

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

- 28. Suppose your math class has 20 students, and then 7 students come in late, and then 9 students leave. How many students are in the class now?
- 29. Suppose Nike is shipping basketballs. Each truck has 500 basketballs, and there are 10 trucks. How many basketballs do we have all together?
- 30. Suppose 32 students get into 4 equal size groups. How big is each group?
- 31. Suppose 42 students get into groups of size 6. How many groups are there?
- 32. Vic has 10 jars, in each of which he put 5 balls. One day he redistributed the balls equally among 5 jars instead. How many balls are now in each jar?

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

- 33. The mean of the data: 4, 2, 64.
- 34. The median of the data: 7, 1, 9.
- 35. The mode of the data: 5, 1, 3, 5, 1, 3, 5, 9.
- 36. The median of the data: 27, 20, 2, 10.
- 37. If data has 7 items, in rows 1, 2, ..., 7 (in order), what item(s) do you need to get the median?
- 38. If data has 8 items, in rows 1, 2, ..., 8 (in order), what item(s) do you need to get the median?
- 39. If data has 101 items, in rows 1, 2, ..., 101 (in order), what item(s) do you need to get the median?
- 40. If data has 100 items, in rows 1, 2, ..., 100 (in order), what item(s) do you need to get the median?
- 41. Write an arithmetic expression (without calculating!) for the mean of 55, 78, 1003, 78.
- 42. If X is the data: 5, 10, 0, 25, find  $\overline{X}$ .
- 43. If X is the data: 7, 7, 1, 3, find  $\sum X$ .
- 44. Suppose the population data is: 8, 5, 7, 3, 2 and the sample data is 5, 3. Find the sample mean and the population mean.

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

- 45. Suppose a population has the following heights (in feet): 5.7, 6.0, 5.9, 6.0, 5.75. Find  $\mu$ .
- 46. Consider the data Y: 47, 86, 99, -34, 87, 87. Find  $\sum Y$  and  $\overline{Y}$ .
- 47. Find the mean of 1001, 8, 9, 15, 7, 9, 8, 9
- 48. Find the median of 1001, 8, 9, 15, 7, 9, 8, 9 (same data as last problem)
- 49. Consider the last two problems which better represents the data, the mean or the median?