Kerry Ojakian's MTH 23.5 Class
Class Assignment #1

1. Among the following numbers, circle the integers:

$$32,\ -20,\ 1/4,\ -2/3,\ 3.5,\ -4,\ 4\frac{2}{3}, -3\frac{1}{3}$$

2. Draw the number line and place the following numbers on it in order:

$$4,\ -3,\ 2,\ -1,\ 10,\ -5,\ 3$$

3. What is the largest of the the numbers from question 2?
4. What is the smallest of the the numbers from question 2?
5. How many numbers from question 2 are negative?
6. What number is not positive and not negative?

Label each statement True or False:

7. $4 < 9$
8. $-9 < -4$
9. $30 = 30$
10. $-10 = 10$
11. $3 \leq 5$
12. $5 \leq 5$
13. $5 < 5$
14. $63 \geq 62.5$

Without a calculator or Excel, calculate the following.

15. $- - 8 =$
16. $- - -2 =$
17. $3 + 5 =$
18. $5 + 3 =$
19. $3 \cdot 5 =$
20. $(5)(3) =$
21. $-3 \cdot 5 =$
22. $(-5)(-3) =$
23. $5 - 3 =$
24. $3 - 5 =$
25. $20 \div 5 =$
26. $-20 \div 5 =$
27. $\dfrac{10}{-2} =$
28. $\dfrac{-10}{-2} =$

29. $787 \cdot 0 =$

30. $999 + 547 + (-999) =$

31. $498 + 647 + (-497) =$

32. $3 + 2 + 4 + 1 =$

33. $3 - 2 + 5 + (-7) =$

34. $\dfrac{4 + 2 + 2 + 4}{2} =$

35. $\dfrac{4 + 2 + 2 + 4}{4} =$

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

36. 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?

37. Suppose Nike is shipping basketballs. Each truck has 500 basketballs, and there are 10 trucks. How many basketballs do we have all together?

38. Suppose 32 students get into 4 equal size groups. How big is each group?

39. Suppose 42 students get into groups of size 6. How many groups are there?

40. 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?

Evaluate **without** a calculator or Excel.

41. $3 + 5 \cdot (2) =$
42. $(3 + 5) \cdot (2) =$
43. $3 + 5 \cdot (-2) =$
44. $(3 + 5) \cdot (-2) =$
45. $1 + 2^3 =$
46. $(1 + 2)^3 =$
47. $10 - 4 =$
48. $4 - 10 =$
49. $-(10 - 4) =$
50. $-(4 - 10) =$
51. $-8 - 3^2 =$
52. $11 - 72 \div 9 =$
53. $18 - 42 \div 7 =$
54. $13 - 5 - 1 + 9 \div 3 =$
55. $5 \cdot 6 - (15 - 6) =$
56. $3 \cdot 9 - (35 - 1) =$
57. $9 + 3 - 12 =$
58. $17 - 10 - 8 =$
59. $10 + 6 \div 2 + (3)(-3) =$
60. $3 \cdot 4 \cdot 2 \div 4 + 3 =$
61. $2 \cdot 5 \cdot 10 \div 5 + 3 =$
62. $(2 \cdot 2)^2 =$
63. $(5 \cdot 2)^2 =$
64. $13 + 0 \div 7 =$
65. $9 + 10 \div 5 =$
66. $[12 \div (4 \div 2)]^2 =$
67. $[32 \div (8 \div 2)]^2 =$
68. $12 + 3 \cdot 2 + (3 + 5 \cdot 2) =$
69. $9 + 4 \cdot 5 + (8 + 4 \cdot 4) =$
70. $13 + 2(5 - 3) =$
71. $16 + 5(9 - 4) =$
72. $12 \div 3 \cdot 4 =$
73. $25 \div 5 \cdot 5 =$
74. $1 + (-9 + 7)^2 - 7 \cdot 2 =$