## Kerry Ojakian's MTH 28.5 Class

## Class Assignment \#4

1. $4^{2}=$
2. $(-4)^{2}=$
3. $(-3)^{3}=$
4. $(-3)^{4}=$
5. $1^{8}=$
6. $0^{8}=$
7. $45^{1}=$
8. $(-45)^{1}=$
9. $-3^{2}=$
10. $(-3)^{2}=$
11. $-1^{5}=$
12. $(-1)^{5}=$
13. $-1^{6}=$
14. $(-1)^{6}=$

Write the following in exponential form:
15. $7 \cdot 7 \cdot 7=$
16. $(-8) \cdot(-8)=$
17. $(2)(2)(2)(2)(2)(2)(2)=$
18. $(-83)(-83)(-83)(-83)=$

Evaluate the following (but reorder first to make the calculation easier!):
19. $7+89+(-7)-89=$
20. $(-8)+34+8+1+(-33)=$

Evaluate:
21. $3+5 \cdot(2)=$
28. $4-10=$
22. $(3+5) \cdot(2)=$
23. $3+5 \cdot(-2)=$
24. $(3+5) \cdot(-2)=$
25. $1+2^{3}=$
26. $(1+2)^{3}=$
27. $10-4=$
29. $|4-10|=$
30. $|10-4|=$
31. $-(10-4)=$
32. $-(4-10)=$
33. $-8-3^{2}=$
34. $11-72 \div 9=$
35. $18-42 \div 7=$
36. $13-5-1+9 \div 3=$
37. $5 \cdot 6-(15-6)=$
38. $3 \cdot 9-(35-1)=$
39. $9+3-12=$
40. $17-10-8=$
41. $10+6 \div 2+(3)(-3)=$
42. $3 \cdot 4 \cdot 2 \div 4+3=$
43. $2 \cdot 5 \cdot 10 \div 5+3=$
44. $(2 \cdot 2)^{2}=$
45. $(5 \cdot 2)^{2}=$
46. $13+0 \div 7=$
47. $9+10 \div 5=$
48. $[12 \div(4 \div 2)]^{2}=$
49. $[32 \div(8 \div 2)]^{2}=$
50. $12+3 \cdot 2+(3+5 \cdot 2)=$
51. $9+4 \cdot 5+(8+4 \cdot 4)=$
52. $13+2(5-3)=$
53. $16+5(9-4)=$
54. $12 \div 3 \cdot 4=$
55. $25 \div 5 \cdot 5=$
56. $1+(-9+7)^{2}-7 \cdot 2=$
57. $2 \cdot|4-5|^{3}-(5-4)^{2}=$

Evaluate (don't let the fractions scare you!):
58. $\frac{2}{3}+\frac{5}{6} \cdot \frac{2}{5}=$
59. $\left(\frac{1}{2}+\frac{1}{2}\right) \cdot(5)=$
60. $\frac{6}{5}+\frac{1}{10} \cdot(-2)=$
61. $\frac{1}{2}+\left(\frac{1}{2}\right)^{2}=$
62. $\left(1+\frac{1}{2}\right)^{2}=$
63. $\left|\frac{2}{3}-\frac{1}{6}\right|=$
64. $-\left(\frac{2}{5}-\frac{1}{10}\right)=$
65. $-\left(\frac{1}{10}-\frac{2}{5}\right)=$
66. $\frac{1}{3}-\frac{1}{6} \div \frac{1}{2}=$
67. $\frac{1}{3}-4 \div \frac{1}{2}=$
68. $\frac{7}{8} \cdot \frac{1}{2}+\frac{1}{4}=$
69. $5 \cdot \frac{2}{5}+\left(\frac{1}{2}-6\right)=$
70. $\frac{4}{3} \cdot \frac{1}{8}-\left(\frac{1}{2}-1\right)=$

Evaluate each in TWO days -1) just order of operations, 2) by first distributing.
71. $2 \cdot(3+2)=$
72. $(3-2) \cdot 4=$
73. $(-2) \cdot(1+3)=$
74. $(-1+1) \cdot 10=$
75. $2 \cdot(4+2-3)=$
76. $(-3+2-7) \cdot(-1)=$

No calculator! ...
77. Which fraction is larger $\frac{3}{8}$ or $\frac{3}{5}$ ?
78. Does $\frac{2}{8}=\frac{1}{4}$ ?
79. Does $\frac{17}{87}=\frac{3}{87}$ ?
80. The rational $\frac{1}{3}$ is between what two consecutive integers?
81. The rational $\frac{7}{3}$ is between what two consecutive integers?
82. The rational $-\frac{7}{3}$ is between what two consecutive integers?
83. Batting Average $=\frac{\text { number of hits }}{\text { number of at bats }}$ (usually written as a decimal)
(a) Vic has a batting average of 0.349 and Mary has a batting average of 0.411 . Whose batting average is larger?
(b) If Vic has a batting average of 0.25 and was at bat 40 times, how many hits did he have?
84. A triangle has a base $\frac{7}{2}$ and a height 5 . What is its area?
85. A triangle has a base $\frac{10}{3}$ and a height $\frac{3}{20}$. What is its area?
86. Suppose square is attached to the base of a triangle. The the base of the triangle is 7 and its height is 10 . What is the area of the whole object?

