Name:_____

Chem. 4 – Fall 2008
Quiz #3

1) Give the names or formulae of the following:
a) lead (IV) carbonate **b) $Ni(C_2H_3O_2)_2$** **c) nitrous acid**

2) The density of platinum is 20.4 g per cm^3. What is the volume, in cubic millimeters (mm^3), of 0.3267 g of platinum?

3) How many nanoseconds (ns) are there in 4.12 megaseconds (Ms)?

4) Perform this calculation: $\dfrac{(-0.4680 + 135.79) \times 16.0}{(128.42 - 129.226)}$

5) **Read carefully!** Do **NOT** solve this problem. Answer **ONLY** the questions below, which are based on the following:
The Trans Alaskan Pipeline pumps enough crude oil every day to make about 3.53×10^5 barrels of gasoline. If you own a car that gets 8.19 miles per liter, how many years can you drive at 2906 cm/s before you use up the 3.53×10^5 barrels of gas?
(1 barrel = 42 gallons exactly, 1 km = 0.6214 mile, 1 L = 0.2642 gal)

a) What is given (including units)?

b) What are the units on the answer going to be?

c) What other information do you know that might be useful?

d) Where are you going to start and what is your "game plan"?

BONUS Question for 2 points. Set-up and solve the above problem. Show all work for credit!