CHEM 115
Winter 2000

HOMEWORK \#4
Due: Feb 2, 2000
(in quiz section)
I. Write answers to the following problems.
*Within Chapter 3: 3-2, 3-6, 3-10, 3-14, 3-16, 3-18, 3-20 (answers in back of text)
*End of Chapter 3: 12, 14, 15, 16, 19, 24, 28, 29, 34
II. Chemistry in your daily life: Estimating the (daily, annual) transportation-related CO2 emissions from Puget Sound region

Data needed: * number of registered vehicles ( est. equal to population)

* average miles driven per year (est 12,000 miles)
* average fuel efficiency (est 20 miles/gallon)

Express your estimated emissions in gallons of gasoline burned per day, and in metric tons of carbon emitted/year. (metric ton $=10(+6)$ grams, $2.2 \mathrm{lbs}=1 \mathrm{~kg}$ ).

Exxon Valdez oil spill in Alaska(10 million gallons) would have supplied Puget Sound for how many days?

