Chemistry chapter 14
Molarity
Use a separate sheet of paper and show all of your work to solve the following problems.

Part A: Determine the molarity of the following solutions:

1. 4.00 moles of NaOH dissolved in 3.50 L of solution.
2. 0.250 moles of $\mathrm{H}_{2} \mathrm{SO}_{4}$ dissolved in 0.500 L of solution.
3. 0.75 moles of Li dissolved in 245 ml of solution.

Part B: Determine the number of moles of solute dissolved in each of the following:
4. 1.50 liters of 0.50 M NaOH solution
5. 585 ml of $18 \mathrm{M} \mathrm{H}_{2} \mathrm{SO}_{4}$ solution
6. 0.80 liters of 0.22 M KCl solution
7. 885 ml of $1.30 \mathrm{M} \mathrm{H}_{2} \mathrm{SO}_{4}$ solution

Part C: Determine the number of grams of solute contained in the following:
8. 3.00 L of 1.6 M of NaOH solution
9. 0.50 L of $0.45 \mathrm{M} \mathrm{HNO}_{3}$ solution
10. 425 mL of $1.55 \mathrm{M} \mathrm{CaCO}_{3}$ solution
11. 602 mL of $1.35 \mathrm{M} \mathrm{Mg}\left(\mathrm{NO}_{3}\right)_{2}$ solution

