Chemistry 11
Molarity Worksheet

Directions: Answer in the space provided and please show all your work.

1. What is the NaCl concentration when 0.658 moles of NaCl is dissolved in 2.50 L of water?

2. What is the resulting molarity when 78.90 g of $CaBr_2$ is dissolved in 1.5 L of water?

3. What is the [KI] when 3.45 g of KI is mixed with 1.25 L of water?

4. What is the $[CaCO_3]$ when 123.6 g of $CaCO_3$ is mixed with 975.0 ml of water?

5. How many moles of KCl are contained 3.50 L of a 2.34 M KCl solution?

6. How many grams of CsOH in 3.00 L of a 0.250 M CsOH solution?

7. How many grams of KNO_3 in 925.0 ml of a 0.925 M KNO_3 solution?

8. What volume of 0.275 M NaCl contains 1.10 mols of NaCl?

9. What volume of 1.250 M KBr contains 97.5 g of KBr?

10.   How many molecules of NaCl are contained in 3.25 L of a 0.750 M solution of NaCl?

11.   How many oxygen atoms are there in 975.0 ml of a 1.75 M solution of $CaSO_4$?

12.   How many atoms are contained in 1250.0 ml of a 0.975 M solution of $Pb(SO_4)_2$?