Frida	y Worksheet Name:
Concentration	
1)	A 34.5g sample of pure NaCl was placed in a 250mL volumetric flask. What is the percentage concentration (w/v) of the salt solution?
2)	A solution has a salt concentration of 1.25g/L. What is its salt concentration in ppm?
3)	A 1.00 Kg sample of baby food contains 0.044 grams of magnesium. What is the magnesium concentration in ppm?
4)	A sample of creek water has a lead concentration of 2250 μ g/kg. What is its concentration in ppm?
5)	A sample of fish caught from the bay has a lead concentration of 0.431% w/w. What is its concentration in ppm?
6)	A student is provided with 500.0 mL of a 950 ppm solution of KNO_3 . What volume of this solution in millilitres contains 0.45g of KNO_3 ?
7)	What mass in milligrams of potassium nitrate is present in 0.35kg of a 450ppm $KNO_{3(aq)}?$
8)	What is the concentration in mol L ⁻ of NaCl in an 3.21% w/v NaCl solution?

9) What is the mol of ethanol in a 750.0 mL bottle of wine with a concentration of 13.1% v/v

A 20.0 mL sample of wine was titrated against a $0.100M~K_2Cr_2O_7$ and an average titre of 12.44mL was obtained. Find the percentage concentration in v/v if the density of

ethanol if the density of ethanol (46.1 g mol⁻) is given at 0.789g/mL

10) Dichromate reacts with ethanol according to the equation below. 3CH3CH2OH + Cr2O7 $^{2-}$ + 8H $^+$ \rightarrow 3CH3COOH + 2Cr $^{3+}$ + 7H2O

ethanol is 0.789g/mL.