## Chemistry 20 - Unit 2 - Concentration (AGAIN)



4) What is the molarity of the CaCl<sub>2</sub> in a solution made by dissolving and diluting 15.00 g of CaCl<sub>2</sub>•6H<sub>2</sub>O to 500.0mL?

Note: When  $CaCl_2 \cdot 6H_2O$  dissolves in water it turns into  $CaCl_2$  with equal number of moles therefore  $[CaCl_2] = [CaCl_2 \cdot 6H_2O]$ 

$$C = \frac{n}{V} = \frac{162}{0.5000} + \frac{160}{0.5000} = 0.1369H$$

$$M_{accl_{2}} + 6H_{2}0 = \frac{m}{M} = \frac{15.00}{219.10} = 0.06846 \text{ mod}$$

$$\left[Cacl_{2} + 6H_{2}0\right] = 0.1369M$$

$$e^{\circ}\left[Cacl_{2}\right] = 0.165mad$$

$$e^{\circ}\left[Cacl_{2}\right] = 0.201M$$

