

Name: _____

Exam 2 Equations (Chapters 3-4)

$$C_1 V_1 = C_2 V_2$$

$$\frac{C_A V_A}{\nu_A} = \frac{C_T V_T}{\nu_T}$$

$$\%m/m = \frac{m_A}{m_{total}} 100\%$$

$$\%m/v = \frac{g_A}{V_{solution}} 100\%$$

$$\%v/v = \frac{V_A}{V_{solution}} 100\%$$

$$ppm = \frac{m_A}{m_{total}} 10^6 ppm$$

$$\%Yield = \frac{\text{actual yield}}{\text{theoretical yield}} 100\%$$

$$ppb = \frac{m_A}{m_{total}} 10^9 ppb$$