Serial Dilution Follow Up

Directions: Use the example and your experiences from the laboratory procedure to answer each of the following questions.

1. What correlation is there between concentration and color of solution?
2. Describe the meaning of the term **concentration.** How does the unit **mol/L** relate to this meaning?
3. Describe the meaning of **serial dilution.**
4. How is performing a serial dilution useful for a scientist?
5. Determine the concentration of each solution in the Serial Dilution Data Table using the following methods.

Dilution Equation: M1V1 = M2V2

M1: Original Concentration (mol/L or M)

M2: Final Concentration (mol/L or M) = 0.1 M

V1: Volume Transferred from Original (mL)

V2: Final Volume of Solution (10 mL)