Lab sheet #3 -Dilution of solutions-

Objectives:

• To get familiar with solution dilutions by different methods.

prepared in the previous lab
Calculation:
→ To prepare the 1:20 dilutionml of the starting solution (0.08M NaOH) is needed and volume made up to a final volume ofml.
(2) Prepare 100ml of 0.2M HCl from the previously 0.4M HCl solution which you prepared in the previous lab
Calculation:
→ To prepare the 0.2M HClml of the starting solution (0.4M HCl) is needed and
volume made up to a total volume ofml by adding water.
(3) Starting with 3 M Copper Sulfate solution, prepare 8ml of four standard solutions (1 to 4) of the following Molarity respectively (dilution 2:8)
(1) M (2) M (3) M (4) M .
Calculation:
→ To prepare standard solution 1: ml of the stock 3 M solution is needed and
volume made up to ml with distilled water.

Note:

Atomic weights: Na = 23, Cl = 35.5, O = 16, H = 1