TUTORIAL:

Reaksi-reaksi dalam Larutan Air

 In a biochemical assay, a chemist needs to add 3.81 g of glucose to a reaction mixture. Calculate the volume in milliliters of a 2.53 *M* glucose solution she should use for the addition. Describe how you would prepare 5.00 x 10² mL of a 1.75 M H₂SO₄ solution, starting with an 8.61 M stock solution of H₂SO₄. 3. A 0.5662 g sample of an ionic compound containing chloride ions and an unknown metal is dissolved in water and treated with an excess of AgNO₃. If 1.0882 g of AgCl precipitate forms, what is the percent by mass of Cl in the original compound?

4. How many milliliters (mL) of a 0.610 M NaOH solution are needed to neutralize 20 mL of a 0.245 M H₂SO₄ solution? 5. A 16.42 mL volume of 0.1327 M KMnO₄ solution is needed to oxidize 25.00 mL of a FeSO₄ solution in an acidic medium. What is the concentration of the FeSO₄ solution in molarity? The net ionic equation is: $5Fe^{2+} + MnO_{4}^{-} + 8H^{+} \rightarrow Mn^{2+} + 5Fe^{3+} + 4H_{2}O$