Assignment 12

Due on: 10/25, 8-10 AM.

Write the balanced chemical equation for the reaction: 2Na(s) + Cl₂(g) → 2NaCl(s)

Dilute 100 mL of 1 M NaOH to 1 L.

Balance the following equation:

2H₂O(l) → H₂O₂(ℓ) + O₂(g)

Dilute 100 mL of 15 M H₂SO₄ to 1 L.

Calculate the molarity of a solution that contains 50 g of NaCl dissolved in 200 mL of water.

Determine the pH of a solution prepared by adding 0.1 M HCl to 1 L of 0.1 M NaOH.

Dilute 100 mL of 0.05 M K₂CO₃ to 1 L.

Balance the following equation:

2Fe(s) + 3Cl₂(g) → FeCl₆(s)

Dilute 100 mL of 0.1 M HNO₃ to 1 L.

Write the balanced chemical equation for the reaction: 2H₂O(l) → H₂O₂(ℓ) + O₂(g)

Dilute 100 mL of 1 M HCl to 1 L.

Balance the following equation:

3NO₂(g) + H₂O(l) → 2HNO₃(ℓ) + N₂O₅(ℓ)

Dilute 100 mL of 1 M H₂SO₄ to 1 L.