**Quiz 1**

# Directions: Answer each of the following questions. Be sure to use complete sentences where appropriate. For full credit be sure to show all of your work. Where appropriate answers should be boxed for clarity, written to the correct number of significant figures, and, include the proper units.

1. What should the name and chemical formula of your final product be in lab this week (1 point)? \_\_\_\_copper, Cu\_\_\_\_\_
2. Correct the following chemical names and write the chemical formula (6 points):
3. Trisodium phosphate sodium phosphate, Na3PO4
4. Neodymium(III) chlorine hexahydrate neodymium(III) chloride hexahydrate,

NdCl3·6 H2O

1. Sulfur hexaflouride sulfur hexafluoride, SF6
2. Copperous nitrite cuprous nitrite or copper(I) nitrite, CuNO2
3. Cyanic acid hydrocyanic acid, HCN (aq)
4. Explain the difference between precision and accuracy (4 points).

Accuracy refers to how close the measured value is to the actual value. Precision refers to how close a series of measurements are to one another or how reproducible they are. A series of measurements can be precise (close to one another in value and reproducible) but not accurate (not close to the true value).

1. The volume of a certain bacterial cell is 2.56 μm3. What is the volume in cubic millimeters, mm3 (3 points)?
2. Complete the following calculations (6 points):