Chemistry 115 Dr. Cary Willard Quiz 3A (20 points) Name_____

February 17, 2009

All work must be shown to receive credit. Use correct significant figures.

1. (5 points) A barrel contains 50.0 L of vegetable oil. If the oil has a density of 0.843 g/ml, how many kg of vegetable oil are in the barrel?

2. (5 points) A bottle of lemon juice contains 5.88% citric acid by mass. How many grams of lemon juice contain 65.0 grams of citric acid?

3. (6 points) When a clean platinum wire is heated in a flame it changes from a lustrous silver color to a dull red color. When the wire is removed from the flame it returns to a lustrous silver color. Is the change that occurs a physical or chemical change? Explain your reasoning.

- 4. (4 points) Name the following compounds.
 - a. C_3H_6
 - b. Na_2S

Chemistry 115 Dr. Cary Willard Quiz 3B (20 points) Name_____

February 17, 2009

All work must be shown to receive credit. Use correct significant figures.

1. (5 points) A barrel contains 50.0 L of vegetable oil. If the oil has a density of 0.782 g/ml, how many kg of vegetable oil are in the barrel?

2. (5 points) A bottle of lemon juice contains 7.02% citric acid by mass. How many grams of lemon juice contain 65.0 grams of citric acid?

3. (6 points) When a clean platinum wire is heated in a flame it changes from a lustrous silver color to a dull red color. When the wire is removed from the flame it returns to a lustrous silver color. Is the change that occurs a physical or chemical change? Explain your reasoning.

- 4. (4 points) Name the following compounds.
 - a. C_2H_4
 - b. Na₃P