Chemistry 115 Name

Dr. Cary Willard

Quiz 2a (20 points) September 5, 2012

All work must be shown to receive credit. Give answers to the correct number of significant figures.

1. (4 points)Calculate the mass in grams of an elephant with a mass of 6390 lbs.
2. (4 points) What is the volume in quarts of 3.24 kg of gasoline. Gasoline has a density of 0.66 g/mL.
3. (4 points) A recipe calls for heating the oven to 325oF. If you are vacationing in Europe and the oven only has temperatures in oC, to what temperature do you preheat the oven?
4. (4 points) Classify each of the following as a pure substance or a mixture. Classify pure substances as elements or compounds and classify pure substances as homogeneous or heterogeneous.
   1. Strawberry ice cream
   2. Pure nitrous oxide (N2O) or laughing gas
5. (4 points) Define the term physical property and give an example of a physical property.

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Quiz 2b (20 points) September 5, 2012

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1. (4 points)Calculate the mass in grams of an elephant with a mass of 7490 lbs.
2. (4 points) What is the volume in quarts of 2.84 kg of gasoline. Gasoline has a density of 0.66 g/mL.
3. (4 points) A recipe calls for heating the oven to 425oF. If you are vacationing in Europe and the oven only has temperatures in oC, to what temperature do you preheat the oven?
4. (4 points) Classify each of the following as a pure substance or a mixture. Classify pure substances as elements or compounds and classify pure substances as homogeneous or heterogeneous.
   1. Chocolate fudge ice cream
   2. Pure neon (Ne), the gas found in orange colored neon lights.
5. (4 points) Define the term physical property and give an example of a physical property.

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Quiz 2c (20 points) September 5, 2012

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1. (4 points)Calculate the volume in milliliters of a giant cup of coffee which contains 761 qt of coffee.
2. (4 points) What is the volume in L of 3.24 lb of gasoline. Gasoline has a density of 0.66 g/mL.
3. (4 points) A friend from Europe sends you a recipe, Unfortunately, the oven temperatures are in oC. If the recipe calls for heating the oven to 215oC, to what temperature in oF do you preheat the oven?
4. (4 points) Classify each of the following as a pure substance or a mixture. Classify pure substances as elements or compounds and classify pure substances as homogeneous or heterogeneous.
   1. Tomato sauce for pasta
   2. Baking soda (NaHCO3)
5. (4 points) Define the term chemical property and give an example of a chemical property.

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Quiz 2d (20 points) September 5, 2012

All work must be shown to receive credit. Give answers to the correct number of significant figures.

1. (4 points)Calculate the volume in milliliters of a giant cup of coffee which contains 719 qt of coffee.
2. (4 points) What is the volume in L of 4.92 lb of gasoline. Gasoline has a density of 0.66 g/mL.
3. (4 points) A friend from Europe sends you a recipe, Unfortunately, the oven temperatures are in oC. If the recipe calls for heating the oven to 175oC, to what temperature in oF do you preheat the oven?
4. (4 points) Classify each of the following as a pure substance or a mixture. Classify pure substances as elements or compounds and classify pure substances as homogeneous or heterogeneous.
   1. Cream sauce for pasta
   2. A statue composed of pure copper metal (Cu)
5. (4 points) Define the term chemical property and give an example of a chemical property.