Chemistry 115 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Quiz 1a

Dr. Cary Willard August 27, 2013

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

1. (4 points) What is wrong with the expression “That is just a theory,” if by theory the speaker is referring to a scientific theory?
2. (2 points) Write the name or symbol for the following elements
   1. Chromium
   2. B
3. (4 points) Write the following measurements in scientific notation with 4 significant figures.
   1. 581962846 g
   2. 0.0000352329 mL
4. (2 points) What is the log of 6.49 x 105? (4 sig figs)
5. (4 points) Perform the following calculations and give the answer to the correct number of significant figures.
   1. 61.384 mL + 531.49 mL =
6. (4 points) A tree is 2.57 x 10-2 miles tall. How tall is the tree in inches? Given that there are 5280 feet per mile and 12 in per foot, write both of these relationships as conversion factors and then use dimensional analysis to solve the problem

Conversion factor relating feet and miles

Conversion factor relating inches and feet

Chemistry 115 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Quiz 1b

Dr. Cary Willard August 27, 2013

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

1. (4 points) What is wrong with the expression “That is just a theory,” if by theory the speaker is referring to a scientific theory?
2. (2 points) Write the name or symbol for the following elements
   1. Cobalt
   2. Li
3. (4 points) Write the following measurements in scientific notation with 4 significant figures.
   1. 6824246825 g
   2. 0.0006159724 mL
4. (2 points) What is the log of 3.52 x 105? (4 sig figs)
5. (4 points) Perform the following calculations and give the answer to the correct number of significant figures.
   1. 61.384 mL + 684.49 mL =
6. (4 points) A tree is 3.04 x 10-2 miles tall. How tall is the tree in inches? Given that there are 5280 feet per mile and 12 in per foot, write both of these relationships as conversion factors and then use dimensional analysis to solve the problem

Conversion factor relating feet and miles

Conversion factor relating inches and feet

Chemistry 115 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Quiz 1c

Dr. Cary Willard August 27, 2013

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

1. (4 points) What is wrong with the expression “That is just a theory,” if by theory the speaker is referring to a scientific theory?
2. (2 points) Write the name or symbol for the following elements
   1. Magnesium
   2. S
3. (4 points) Write the following measurements in scientific notation with 4 significant figures.
   1. 5269725 cm
   2. 0.006848267 kg
4. (2 points) What is the log of 4.95 x 108? (4 sig figs)
5. (4 points) Perform the following calculations and give the answer to the correct number of significant figures.
   1. 12.6842 g + 3.5 g =
6. (4 points) A chicken has a mass of 3.78 x 10-3 tons. What is the mass of the chicken in ounces? Given that there are exactly 2000. lbs per ton and 16 ounces per pound, write both of these relationships as conversion factors and then use dimensional analysis to solve the problem

Conversion factor relating pounds(lb) and tons

Conversion factor relating pounds(lb) and ounces(oz)

Chemistry 115 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Quiz 1d

Dr. Cary Willard August 27, 2013

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

1. (4 points) What is wrong with the expression “That is just a theory,” if by theory the speaker is referring to a scientific theory?
2. (2 points) Write the name or symbol for the following elements
   1. Bromine
   2. P
3. (4 points) Write the following measurements in scientific notation with 4 significant figures.
   1. 9573517 cm
   2. 0.0057596248 kg
4. (2 points) What is the log of 6.37 x 108? (4 sig figs)
5. (4 points) Perform the following calculations and give the answer to the correct number of significant figures.
   1. 15.6842 g + 3.6 g =
6. (4 points) A chicken has a mass of 2.94 x 10-3 tons. What is the mass of the chicken in ounces? Given that there are exactly 2000. lbs per ton and 16 ounces per pound, write both of these relationships as conversion factors and then use dimensional analysis to solve the problem

Conversion factor relating pounds(lb) and tons

Conversion factor relating pounds(lb) and ounces(oz)