Chemistry 115 Name key

Dr. Cary Willard

Quiz 1a (20 points) September 2, 2010

All work must be shown to receive credit

1. (4 points) How many significant figures are in each of the following numbers?
	1. 64.703

 5

* 1. 0.000850

 3

1. (4 points) Perform the following calculation and give the answer to the correct number of significant figures
	1. 75.5489 + 432.60 = 508.15

* 1. 53.753 x 0.9640 x 104.3 = 5405
1. (4 points) What is an observation?

It is what you see in your environment or in an experiment. It is what you observe.

1. (4 points) If a pineapple has a mass of 1.73 kg, what is its mass in milligrams?

$$?mg=1.73 kg×\frac{1000 g}{1 kg}×\frac{1000mg}{1 g}=1.73×10^{6}mg$$

1. (4 points) A container of paint contains 6.24 quarts of green paint. How many mL of paint are in the can?

$$?mL=6.24 qt×\frac{946 mL}{1 qt}=5.90×10^{3}mL$$

Chemistry 115 Name key

Dr. Cary Willard

Quiz 1b (20 points) September 2, 2010

All work must be shown to receive credit

1. (4 points) How many significant figures are in each of the following numbers?
	1. 634.8005

 7

* 1. 0.000007530

 4

1. (4 points) Perform the following calculation and give the answer to the correct number of significant figures
	1. 45.8634 + 632.40 = 678.26
	2. 43.742 x 0.9460 x 371.3 = 1.536 x 104 or 15360
2. (4 points) What is a conclusion?

An explanation for observations based on current knowledge.

1. (4 points) If a pineapple has a mass of 2.17 kg, what is its mass in milligrams?

$$?mg=2.17 kg×\frac{1000 g}{1 kg}×\frac{1000mg}{1 g}=2.17×10^{6}mg$$

1. (4 points) A container of paint contains 8.52 quarts of green paint. How many mL of paint are in the can?

$$?mL=8.52 qt×\frac{946 mL}{1 qt}=8.06×10^{3}mL$$