Chemistry 115 Name key

Dr. Cary Willard

Quiz 1a (20 points) August 31, 2010

All work must be shown to receive credit

1. (4 points) Round the following numbers to 3 significant figures and write them in scientific notation.
   1. 69329350

6.93 x 107

* 1. 0.000329631313

3.30 x 10-4

1. (4 points) Perform the following calculation and give the answer to the correct number of significant figures
   1. 36.287 + 164.86 =

201.15

* 1. 39.562 x 0.2770 x 104.3 =

1143 or 1.143 x 103

1. (4 points) What is a hypothesis?

A tentative conclusion.

1. (4 points) If a tree is 42.8 meters tall, how tall is it in millimeters?
2. (4 points) A recipe calls for 438 g of sugar. How many pounds of sugar are required?

Chemistry 115 Name key

Dr. Cary Willard

Quiz 1b (20 points) August 31, 2010

All work must be shown to receive credit

1. (4 points) Round the following numbers to 3 significant figures and write them in scientific notation.
   1. 66971339350

6.70 x 1010

* 1. 0.0000324231313

3.24 x 10-5

1. (4 points) Perform the following calculation and give the answer to the correct number of significant figures
   1. 27.524 + 251.73 =

279.25

* 1. 74.832 x 0.5380 x 261.6

10530 or 1.053 x 104

1. (4 points) What is a law?

A consistent and reproducible observation.

1. (4 points) If a tree is 52.3 meters tall, how tall is it in millimeters?
2. (4 points) A recipe calls for 257 g of sugar. How many pounds of sugar are required?