

Introduction to Chemistry
Quiz 1 c

Name: _____
Date: _____

Significant Digits
Unit Analysis Problem Solving
Using Percents

1. Add or multiply the following measurements and round the answer. Remember the units!

(a)
$$\begin{array}{r} 0.1 \text{ g} \\ 0.24 \text{ g} \\ + \underline{0.151 \text{ g}} \end{array}$$

(b) $(7.701 \times 10^2 \text{ cm}) \cdot (2 \text{ cm}) =$

2. A 1.239 g sample of ore contains 0.1% silver by mass. Find the mass of silver in the ore.

3. Order these measurements from the most to the least precise 61°C, 60°C, 59.9°C, 58.11°C given that true temperature is 60.000°C.

Most precise , , , Least precise

4. Given that the correct mass is 1000.015g Order these measurements from the most accurate to the least accurate 1000g, 999.899g, 99.99g, 1000.036g

Most accurate , , , Least accurate

5. Fold quiz with your work inside, then write your name on the outside.