

Chem 110
Quiz 1

_____ Sort # Name _____ Section # _____

Report all answers to the appropriate number of significant figures and with the correct units.

Required Questions

1.
$$\begin{array}{r} 17.177 \\ +4.90 \\ \hline \end{array}$$
 22.08 (2 dec.)

2. $0.333 \times 3.0 =$ **Sample** 1.0 (2 sf)

3. The standard exponential form of 0.004750 is: 4.750×10^{-3} (4 sf)

4. What is the percentage of **water** in a solution made by mixing 0.950 g of salt and 6.775 g of water? 87.70 % water

Achievement Questions

1. Rearrange the equation below for A. $A =$ $\frac{2}{[(1/C) - K]} \text{ or } \frac{2C}{(1 - CK)}$
 $(A/C) - AK = 2$

2. $(14.181 - 0.0711) \times (3.118 + 0.019) =$ 44.26 (4 sf)

3. $(5.43 \times 10^{-4}) + (6.2 \times 10^{-5}) =$ 6.05×10^{-4} (3 sf)

4. The weight percent of gold in an ore is 5.10%. What is the weight of a sample of ore that contains 35 lb of gold? 6.9×10^2 lb ore (2 sf)

5. Rearrange the equation below for K. $K =$ $\frac{1 - (B/A)}{P} \text{ or } \frac{(A - B)}{AP}$
 $(1/K) - (B/KA) = P$