

## **Chapter 10 Review: Chemical Quantities & Calculations**

*(aka – mole & volume calculations, % composition, empirical & molecular formulas)*

For the test, be sure that you are familiar, and able to complete, the problems below as well as the problems found on the following worksheets: "Molecular Weight and Mole Calculations," "Percent Comp. & Chemical Formula Calculations" and "Chapter 10 Sample Problems." Check the class website for answers to the review worksheet.

1. The air around you is made up of 20.95% oxygen. How many oxygen molecules are in 75.0 grams of air? The density of air is 1.19 g/L. *assume STP.*
2. How much helium (*grams*) would be needed to inflate a balloon to a volume of 5.50L? *assume STP.*
3. The molecular formula of an antibacterial drug is  $C_{17}H_{18}FN_2O_5$ . How many fluorine atoms are in 150mg of this drug?
4. A molecule is made up of 40.0% carbon, 6.67% hydrogen, and an unknown amount of oxygen. What is the molecular formula of the molecule if its molar mass is 90.0g/mole?
5. What is the empirical formula for a compound made up of 71.72% chlorine, 16.16% oxygen and 12.12% carbon? Calculate the molecular formula for the compound if it has a molar mass of 296.7g/mol.
6. How many molecules are in 8.42 Kilograms of  $C_2H_4$ ?

# 10 Chemical Quantities Guided Practice Problems

## Answers

**N Noddings**



## **10 Chemical Quantities Guided Practice Problems Answers:**

## Unveiling the Power of Verbal Art: An Mental Sojourn through **10 Chemical Quantities Guided Practice Problems Answers**

In a global inundated with displays and the cacophony of instant communication, the profound energy and mental resonance of verbal artistry often disappear into obscurity, eclipsed by the constant barrage of sound and distractions. However, nestled within the lyrical pages of **10 Chemical Quantities Guided Practice Problems Answers**, a interesting function of literary elegance that pulses with organic emotions, lies an unforgettable journey waiting to be embarked upon. Penned by a virtuoso wordsmith, this interesting opus guides viewers on an emotional odyssey, delicately revealing the latent possible and profound affect stuck within the complicated web of language. Within the heart-wrenching expanse with this evocative analysis, we shall embark upon an introspective exploration of the book is central styles, dissect its fascinating writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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