

## 12

## STOICHIOMETRY

## Practice Problems

In your notebook, solve the following problems.

## SECTION 12.1 THE ARITHMETIC OF EQUATIONS

Use the 3-step problem-solving approach you learned in Chapter 1.

1. An apple pie needs 10 large apples, 2 cups rasp and blueberries, and 1 tablespoon of cinnamon. Write a balanced equation that fits this situation. How many apples are needed to make 20 pies?
2. Two moles of potassium chloride and three moles of oxygen are produced from the decomposition of two moles of potassium chlorate,  $\text{KClO}_3$ . Write the balanced equation. How many moles of oxygen are produced from 12 moles of potassium chlorate?
3. Using the equation from problem 2, how many moles of oxygen are produced from 14 moles of potassium chlorate?
4. Two molecules of hydrogen react with one molecule of oxygen to produce two molecules of water. How many molecules of water are produced from  $3.8 \times 10^{22}$  molecules of oxygen? How many moles of water are produced from 22.5 moles of oxygen?

## SECTION 12.2 CHEMICAL CALCULATIONS

1. Calculate the number of moles of hydrogen chloride produced from 10 moles of hydrogen.



2. Calculate the number of moles of chlorine needed to form 14 moles of iron(III) chloride.



3. Calculate the number of grams of nitrogen dioxide that are produced from 4 moles of nitric oxide.



4. Calculate the mass of oxygen produced from the decomposition of 15.0 g of potassium chlorate.



5. Calculate the mass of silver needed to react with chlorine to produce 94 g of silver chloride. (Write a balanced equation first.)

6. How many liters of carbon monoxide at STP are needed to react with 4.00 g of oxygen gas to produce carbon dioxide?



7. Calculate the number of liters of oxygen gas needed to produce 15.0 liters of nitrogen dioxide. Assume all gases are at the same conditions of temperature and pressure.



# Chemistry Chapter 12 Stoichiometry Guided Reading And Study Workbook Answers

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**Chemistry Chapter 12 Stoichiometry Guided Reading And Study Workbook Answers:**

## Whispering the Techniques of Language: An Psychological Quest through **Chemistry Chapter 12 Stoichiometry Guided Reading And Study Workbook Answers**

In a digitally-driven world wherever screens reign supreme and instant connection drowns out the subtleties of language, the profound secrets and psychological nuances concealed within phrases usually get unheard. Yet, nestled within the pages of **Chemistry Chapter 12 Stoichiometry Guided Reading And Study Workbook Answers** a charming fictional treasure pulsating with organic feelings, lies an extraordinary quest waiting to be undertaken. Penned by an experienced wordsmith, this marvelous opus attracts visitors on an introspective journey, softly unraveling the veiled truths and profound influence resonating within ab muscles cloth of every word. Within the psychological depths of the moving evaluation, we shall embark upon a honest exploration of the book is primary styles, dissect its interesting writing model, and fail to the powerful resonance it evokes deep within the recesses of readers hearts.

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