

12.1 The Arithmetic of Equations

Connecting to Your World

Silk is one of the most beautiful and luxurious of all fabrics. It is spun from the cocoons of silkworms. Silk manufacturers know from experience that to produce enough silk to make just one elegant Japanese kimono they will need over 3000 cocoons. In a similar fashion, chemists need to know how much reactant is needed to make a certain amount of product. The answer lies in chemical equations. From a balanced chemical equation, you can determine the quantities of reactants and products in a reaction.



Using Everyday Equations

When you bake cookies, you probably use a recipe. A cookie recipe tells you the precise amounts of ingredients to mix to make a certain number of cookies, as shown in Figure 12.1. If you need a larger number of cookies than the recipe provides, you can double or triple the amounts of ingredients. **➤ A balanced chemical equation provides the same kind of quantitative information that a recipe does.** In a cookie recipe, you can think of the ingredients as the reactants, and the cookies as the products.

Here is another example. Imagine you are in charge of manufacturing for the Tiny Tyke Tricycle Company. The business plan for Tiny Tyke requires the production of 600 custom-made tricycles each week. One of your responsibilities is to be sure that there are enough parts available at the start of each workweek to make these tricycles. How can you determine the number of parts you need per week?



Guide for Reading

Key Concepts

- How is a balanced equation like a recipe?
- How do chemists use balanced chemical equations?
- In terms of what quantities can you interpret a balanced chemical equation?
- What quantities are consumed in every chemical reaction?

Vocabulary

stoichiometry

Reading Strategy

Using Prior Knowledge: Before you read, jot down three things you know about balanced chemical equations. When you have read the section, explain how what you already knew helped you learn something new.

Figure 12.1 A cookie recipe tells you the number of cookies that you can expect to make from the listed amounts of ingredients. **Using Models:** How can you express a cookie recipe as a balanced equation?

Section 12 1 The Arithmetic Of Equations Worksheet Answer

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Sharma**



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Worksheets and Study Guide for Kaufmann/Schwitters' Algebra for College Students Kay Haralson, 2000

Patterns in Arithmetic Alysia Krafel, Suki Glenn, Susan Carpenter, 2007 **Symbolic Mathematics for Chemists**

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