Lesson at a Glance

Chapter 1 Lesson 1

Overview This lesson introduces true, false, and open statements.

Objective

- To identify arithmetic statements as *true*, *false*, or *open*

Student Pages 2–3

Teacher's Resource Library TRL

- Workbook Activity 1
- Activity 1
- Alternative Activity 1

Mathematics Vocabulary

algebra	**open statement**
arithmetic	**statement**

1 Warm-Up Activity

Review the four arithmetic operations—addition, subtraction, multiplication, and division. Write several arithmetic statements, some true and some false, on the board. For example, $4 + 5 = 9$, $1 + 1 = 3$, $5 - 3 = 4$, and $4 - 3 = 2$. Allow students time to recognize that some of the statements are not true. Use students' responses to introduce the concept of true and false statements in arithmetic.

2 Teaching the Lesson

Students will likely be familiar with the concepts of *true* and *false*. However, open statements may need additional explanation. Emphasize to students that until a value is assigned to a variable, algebraic statements are neither *true* nor *false*.

Common Error

Help students avoid attaching any great significance to n as a placeholder for a number. Indicate that the choice of n is arbitrary. Explain that open statements can be written using x, y, z, or any other letter of the alphabet.

Lesson 1 Arithmetic and Algebra

Arithmetic
The study of the properties of and relations of numbers, using four basic operations—addition, subtraction, multiplication, and division

Statement
A sentence that is true or false

Algebra
The branch of mathematics that uses both letters and numbers to show relations between quantities

Open statement
A sentence that is neither true nor false

You have learned to solve problems with whole numbers. Look at these problems.

$3 \cdot 5 =$ ■

$31 + 4 =$ ■

$31 - 3 =$ ■

$30 \div 5 =$ ■

If you perform the **arithmetic** correctly, the **statements** are *true*, but if you make a mistake, the statements are *false*.

Example 1

True Statements	False Statements
$3 \cdot 5 = 15$	$3 \cdot 5 = 12$
$31 + 4 = 35$	$31 + 4 = 36$
$31 - 3 = 28$	$31 - 3 = 27$
$30 \div 5 = 6$	$30 \div 5 = 4$

In **algebra**, you perform arithmetic that includes letters as well as numbers. For example, if you let n be a placeholder for a number, then

3 times *some number* is written	$3n$
31 plus *some number* is written	$31 + n$
31 minus *some number* is written	$31 - n$
30 divided by *some number* is written	$30 \div n$ or $\frac{30}{n}$

$3n$ means 3 times n. In algebra, the multiplication sign can be confused with the letter x. This is how you show multiplication in algebra: $3n$ or $3 \cdot n$ or $3(n)$.

The following statement is a true statement: $3 \cdot 5 = 15$. $3n = 15$ is neither true nor false. It is an **open statement**.

Example 2

Open Statements

$3n = 15$
$31 + n = 35$
$31 - n = 28$
$30 \div n = 6$

TRL

Workbook Activity 1

TRL

Activity 1

Ags Basic Mathematics Answer Key

August V. Treff,Donald H. Jacobs

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Ags Basic Mathematics Answer Key Book Review: Unveiling the Magic of Language

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Table of Contents Ags Basic Mathematics Answer Key

1. Understanding the eBook Ags Basic Mathematics Answer Key
    - The Rise of Digital Reading Ags Basic Mathematics Answer Key
    - Advantages of eBooks Over Traditional Books
2. Identifying Ags Basic Mathematics Answer Key
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Ags Basic Mathematics Answer Key
    - User-Friendly Interface
4. Exploring eBook Recommendations from Ags Basic Mathematics Answer Key
    - Personalized Recommendations
    - Ags Basic Mathematics Answer Key User Reviews and Ratings

- Ags Basic Mathematics Answer Key and Bestseller Lists

5. Accessing Ags Basic Mathematics Answer Key Free and Paid eBooks
   - Ags Basic Mathematics Answer Key Public Domain eBooks
   - Ags Basic Mathematics Answer Key eBook Subscription Services
   - Ags Basic Mathematics Answer Key Budget-Friendly Options
6. Navigating Ags Basic Mathematics Answer Key eBook Formats
   - ePub, PDF, MOBI, and More
   - Ags Basic Mathematics Answer Key Compatibility with Devices
   - Ags Basic Mathematics Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Ags Basic Mathematics Answer Key
   - Highlighting and Note-Taking Ags Basic Mathematics Answer Key
   - Interactive Elements Ags Basic Mathematics Answer Key
8. Staying Engaged with Ags Basic Mathematics Answer Key
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Ags Basic Mathematics Answer Key
9. Balancing eBooks and Physical Books Ags Basic Mathematics Answer Key
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Ags Basic Mathematics Answer Key
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Ags Basic Mathematics Answer Key
    - Setting Reading Goals Ags Basic Mathematics Answer Key
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ags Basic Mathematics Answer Key
    - Fact-Checking eBook Content of Ags Basic Mathematics Answer Key
    - Distinguishing Credible Sources

13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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