

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
arithmetic

open statement
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.

$$3 \cdot 5 = 15$$

$$31 + 4 = 35$$

$$31 - 3 = 28$$

$$30 \div 5 = 6$$

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

EXAMPLE 1

True Statements

$$3 \cdot 5 = 15$$

$$31 + 4 = 35$$

$$31 - 3 = 28$$

$$30 \div 5 = 6$$

False Statements

$$3 \cdot 5 = 12$$

$$31 + 4 = 36$$

$$31 - 3 = 27$$

$$30 \div 5 = 4$$

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

$$30 \div n \text{ or } \frac{30}{n}$$

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

$$3n = 15$$

$$31 + n = 35$$

$$31 - n = 28$$

$$30 \div n = 6$$

Arithmetic and Algebra

Objective Identify true, false, and open statements.

Directions Write true, false, or open in the space provided.

1. $3 \cdot 5 = 15$	True
2. $31 + 4 = 35$	True
3. $31 - 3 = 28$	True
4. $30 \div 5 = 6$	True
5. $3 \cdot 5 = 12$	False
6. $31 + 4 = 36$	False
7. $31 - 3 = 27$	False
8. $30 \div 5 = 4$	False
9. $3n = 15$	Open
10. $31 + n = 35$	Open
11. $31 - n = 28$	Open
12. $30 \div n = 6$	Open



Arithmetic and Algebra

Objective Identify true, false, and open statements.

Directions Write true, false, or open in the space provided.

1. $3 \cdot 5 = 15$	True
2. $31 + 4 = 35$	True
3. $31 - 3 = 28$	True
4. $30 \div 5 = 6$	True
5. $3 \cdot 5 = 12$	False
6. $31 + 4 = 36$	False
7. $31 - 3 = 27$	False
8. $30 \div 5 = 4$	False
9. $3n = 15$	Open
10. $31 + n = 35$	Open
11. $31 - n = 28$	Open
12. $30 \div n = 6$	Open



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RD Boyd



Ags Publishing Teacher Algebra Answer:

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