

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 

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 , z , or any other letter of the alphabet.

Lesson 1

Arithmetic and Algebra

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

$$3 + 5 = \boxed{8}$$

$$31 + 4 = \boxed{35}$$

$$31 - 3 = \boxed{28}$$

$$30 \div 5 = \boxed{6}$$

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

Example 1

True Statements

$$3 + 5 = 8$$

$$31 + 4 = 35$$

$$31 - 3 = 28$$

$$30 \div 5 = 6$$

False Statements

$$3 + 5 = 12$$

$$31 + 4 = 36$$

$$31 - 3 = 27$$

$$30 \div 5 = 4$$

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

The following statement is a true statement: $3 + 5 = 8$. $3n = 15$ is neither true nor false. It is an **open statement**.

Example 2

Open Statements

$$3n = 15$$

$$31 + n = 35$$

$$31 - n = 28$$

$$30 \div n = 6$$

2 Chapter 1 Algebra: Arithmetic with Letters

Arithmetic and Algebra	
1. $3 + 5 = 8$	<input type="checkbox"/>
2. $31 + 4 = 35$	<input type="checkbox"/>
3. $31 - 3 = 28$	<input type="checkbox"/>
4. $30 \div 5 = 6$	<input type="checkbox"/>
5. $3n = 15$	<input type="checkbox"/>
6. $31 + n = 35$	<input type="checkbox"/>
7. $31 - n = 28$	<input type="checkbox"/>
8. $30 \div n = 6$	<input type="checkbox"/>

Arithmetic and Algebra	
1. $3 + 5 = 8$	<input type="checkbox"/>
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8. $30 \div n = 6$	<input type="checkbox"/>

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Donny Brusca

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