

# 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  $x$ ,  $y$ ,  $z$ , 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.

$$3 + 5 = 8$$

$$31 + 4 = 36$$

$$31 - 3 = 28$$

$$30 \div 5 = 6$$

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

#### EXAMPLE 1

##### True Statements

$$3 + 5 = 15$$

$$31 + 4 = 35$$

$$31 - 3 = 28$$

$$30 \div 5 = 6$$

##### 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:  $3 + 5 = 15$ .  $3n = 15$  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.

**Materials** Student pages 2 and 3, Student page 3, Student page 4, Student page 5, Student page 6, Student page 7, Student page 8, Student page 9, Student page 10, Student page 11, Student page 12, Student page 13, Student page 14, Student page 15, Student page 16, Student page 17, Student page 18, Student page 19, Student page 20, Student page 21, Student page 22, Student page 23, Student page 24, Student page 25, Student page 26, Student page 27, Student page 28, Student page 29, Student page 30, Student page 31, Student page 32, Student page 33, Student page 34, Student page 35, Student page 36, Student page 37, Student page 38, Student page 39, Student page 40, Student page 41, Student page 42, Student page 43, Student page 44, Student page 45, Student page 46, Student page 47, Student page 48, Student page 49, Student page 50, Student page 51, Student page 52, Student page 53, Student page 54, Student page 55, Student page 56, Student page 57, Student page 58, Student page 59, Student page 60, Student page 61, Student page 62, Student page 63, Student page 64, Student page 65, Student page 66, Student page 67, Student page 68, Student page 69, Student page 70, Student page 71, Student page 72, Student page 73, Student page 74, Student page 75, Student page 76, Student page 77, Student page 78, Student page 79, Student page 80, Student page 81, Student page 82, Student page 83, Student page 84, Student page 85, Student page 86, Student page 87, Student page 88, Student page 89, Student page 90, Student page 91, Student page 92, Student page 93, Student page 94, Student page 95, Student page 96, Student page 97, Student page 98, Student page 99, Student page 100.



Arithmetic and Algebra

**Objective** Identify true, false, and open statements.

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**Yi-Tong Ma**



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