

# 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.

$$3 \cdot 5 = 15$$

$$31 + 4 = 35$$

$$31 - 3 = 28$$

$$30 \div 5 = 6$$

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. $3 \cdot 5 = 15$ | _____ | 2. $3n = 15$      | _____ |
| 3. $31 + 4 = 35$    | _____ | 4. $31 - 3 = 28$  | _____ |
| 5. $30 \div 5 = 6$  | _____ | 6. $3n = 15$      | _____ |
| 7. $31 + n = 35$    | _____ | 8. $31 - n = 28$  | _____ |
| 9. $30 \div n = 6$  | _____ | 10. $3n = 15$     | _____ |
| 11. $31 + n = 35$   | _____ | 12. $31 - n = 28$ | _____ |
| 13. $30 \div n = 6$ | _____ | 14. $3n = 15$     | _____ |
| 15. $31 + n = 35$   | _____ | 16. $31 - n = 28$ | _____ |
| 17. $30 \div n = 6$ | _____ | 18. $3n = 15$     | _____ |
| 19. $31 + n = 35$   | _____ | 20. $31 - n = 28$ | _____ |
| 21. $30 \div n = 6$ | _____ | 22. $3n = 15$     | _____ |
| 23. $31 + n = 35$   | _____ | 24. $31 - n = 28$ | _____ |
| 25. $30 \div n = 6$ | _____ | 26. $3n = 15$     | _____ |



Arithmetic and Algebra

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

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

|                     |       |                   |       |
|---------------------|-------|-------------------|-------|
| 1. $3 \cdot 5 = 15$ | _____ | 2. $3n = 15$      | _____ |
| 3. $31 + 4 = 35$    | _____ | 4. $31 - 3 = 28$  | _____ |
| 5. $30 \div 5 = 6$  | _____ | 6. $3n = 15$      | _____ |
| 7. $31 + n = 35$    | _____ | 8. $31 - n = 28$  | _____ |
| 9. $30 \div n = 6$  | _____ | 10. $3n = 15$     | _____ |
| 11. $31 + n = 35$   | _____ | 12. $31 - n = 28$ | _____ |
| 13. $30 \div n = 6$ | _____ | 14. $3n = 15$     | _____ |
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| 17. $30 \div n = 6$ | _____ | 18. $3n = 15$     | _____ |
| 19. $31 + n = 35$   | _____ | 20. $31 - n = 28$ | _____ |
| 21. $30 \div n = 6$ | _____ | 22. $3n = 15$     | _____ |
| 23. $31 + n = 35$   | _____ | 24. $31 - n = 28$ | _____ |
| 25. $30 \div n = 6$ | _____ | 26. $3n = 15$     | _____ |



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