

NAME \_\_\_\_\_

DATE \_\_\_\_\_

**Module 2** Writing and Simplifying Algebraic Expressions

**Lesson 1** Using the Language of Algebra



**guided  
notes**

### Lesson Objectives

- Define algebraic vocabulary.
- Identify the coefficient of a term.
- Classify polynomials by the number of terms.
- Find the degree of a monomial.
- Find the degree of a polynomial.

A \_\_\_\_\_ is a letter that stands for an unknown number.

A variable can be represented by \_\_\_\_\_ and \_\_\_\_\_ case letters.

Variables can also be greek letters, such as \_\_\_\_\_.

An \_\_\_\_\_ is a combination of numbers, one or more variables, and operations.

A number, a variable, or a product of numbers and variables is called a \_\_\_\_\_.

Two examples of terms are \_\_\_\_\_ and \_\_\_\_\_.

A \_\_\_\_\_ is an expression containing one term.

A \_\_\_\_\_ is the number that is multiplied by a variable.

1 What is the coefficient of  $-4xyz^2$ ? \_\_\_\_\_

2 What is the coefficient of  $\frac{3t}{4}$ ? \_\_\_\_\_

The terms in a polynomial are separated by \_\_\_\_\_ and \_\_\_\_\_ signs.

A polynomial is a \_\_\_\_\_ or the \_\_\_\_\_ of monomials.

A \_\_\_\_\_ is an expression containing two terms.

A \_\_\_\_\_ is an expression containing three terms.

Polynomial	Number of Terms	Example
Monomial		
Binomial		
Trinomial		

**3** Classify the polynomial  $x^2 - 36$  as a monomial, binomial, or trinomial.

\_\_\_\_\_

The degree of a monomial is the \_\_\_\_\_ of the \_\_\_\_\_ of its \_\_\_\_\_.

**4** What is the degree of the monomial  $5x^4y^2$ ? \_\_\_\_\_

The degree of a polynomial is the \_\_\_\_\_ degree of any term of the polynomial.

The degree of the polynomial  $x^3 - 2x^2 - x + 1$  is \_\_\_\_\_.

