

Study Guide and Intervention

Multiplication Properties of Exponents

Multiply Monomials A **monomial** is a number, a variable, or the product of a number and one or more variables with nonnegative integer exponents. An expression of the form x^n is called a **power** and represents the product you obtain when x is used as a factor n times. To multiply two powers that have the same base, add the exponents.

| | |
|--------------------------|---|
| Product of Powers | For any number a and all integers m and n , $a^m \cdot a^n = a^{m+n}$. |
|--------------------------|---|

Example 1: Simplify $(3 \cdot x^6)(5 \cdot x^2)$.

$$(3 \cdot x^6)(5 \cdot x^2) = (3)(5)(x^6 \cdot x^2) \quad \text{Group the coefficients}$$

and the variables

$$= (3 \cdot 5)(x^{6+2}) \quad \text{Product of Powers}$$

$$= 15 \cdot x^8 \quad \text{Simplify.}$$

The product is $15 \cdot x^8$.

Example 2: Simplify $(-4 \cdot a^3 \cdot b)(3 \cdot a^2 \cdot b^5)$.

$$(-4 \cdot a^3 \cdot b)(3 \cdot a^2 \cdot b^5) = (-4)(3)(a^3 \cdot a^2)(b \cdot b^5)$$

$$= -12(a^{3+2})(b^{1+5})$$

$$= -12 \cdot a^5 \cdot b^6$$

The product is $-12 \cdot a^5 \cdot b^6$.

Exercises

Simplify each expression.

1. $x(x^5)$

2. $(-7 \cdot x^2)(x \cdot x^6)$

3. $(x^2 \cdot y)(4x \cdot y^3)$

4. $\frac{1}{3} \cdot (2 \cdot a^3 \cdot b)(6 \cdot b^2)$

7 1 Study Guide Intervention Multiplying Monomials Answers

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