

Exponents and Monomials – Quick Reference

$$4^2$$

This expression is read as "4 to the second power" OR "4 squared".

$$4^2 = 4 \cdot 4$$

It means that we multiply 4 by itself 2 times.

$$4^2 = 16$$

$$4 \cdot 4 = 16$$



Tip!

Whenever you have a **negative base** and the **exponent is even**, your answer will always be **positive**!

Whenever you have a **negative base** and the **exponent is odd**, your answer will always be **negative**!

$$(-3)^3$$

This expression is read as -3 to the third power.

$$(-3)^3 = -3 \cdot -3 \cdot -3$$

It means that we multiply -3 by itself 3 times.

$$(-3)^3 = -27$$

$$-3 \cdot -3 \cdot -3 = -27$$

$$9 \cdot (-3) = -27$$

LAWS of EXPONENTS

Multiplying Powers with the Same Base

Property: When multiplying powers with the same base, **add the exponents**.

$$y^3 \cdot y^4 = y^7$$

Since the bases are the same (y), you can add the exponents: $3+4 = 7$.

Power of a Power Property

Property: To find the power of a power, **multiply the exponents**.

$$(a^3)^5 = a^{15}$$

Multiply the exponents.

Power of a Product Property

Property: To find the power of a product, **find the power of each factor and multiply**.

Think of it as distributing the exponent to each factor!

$$(2xy)^3 = 2^3 x^3 y^3 = 8 x^3 y^3$$

$2^3 = 8$. $x^3 y^3$ cannot be combined because the bases are not the same.

Power of Quotient Property

Property: To find the power of a quotient, **raise the numerator to the power, and the denominator to the power. Then divide**.

$$\left(\frac{2}{3}\right)^3 = \frac{2^3}{3^3} = \frac{8}{27}$$

Zero Exponents

Any number (except 0) to the zero power is equal to 1.

$$4^0 = 1$$

$$10^0 = 1$$

$$22^0 = 1$$

$$y^0 = 1$$

The Rule for Negative Exponents:

The expression a^{-n} is the reciprocal of a^n .

$$3x^{-2} = \frac{3}{x^2}$$

"In this problem, only the x contains the negative exponent, so we only take the reciprocal of x^2 ."

Multiplying Monomials Example

$(2x^2y^3z)^2 \cdot (-3xy^4z)$	Original Problem
$(2x^2y^3z)^2 \cdot (-3xy^4z)$	The first monomial is raised to the second power. Every constant and variable must be raised to the second power.
$(4x^4y^6z^2) \cdot (-3xy^4z)$	"The second monomial is not raised to a power, so leave it as is!"
$(4x^4y^6z^2) \cdot (-3xy^4z) = -27$	Multiply your coefficients.
$(4x^4y^6z^2) \cdot (-3xy^4z) = -27x^5y^{10}z^3$	Multiply the variables with like bases. (Add the exponents.)
$(2x^2y^3z)^2 \cdot (-3xy^4z) = -27x^5y^{10}z^3$	Final Answer

Simplifying Monomials Example

$\frac{2x^3y^4}{3x} \cdot \frac{9x^2y^2}{y^4} =$		Original Problem
$\frac{2x^3y^4}{3x} \cdot \frac{9x^2y^2}{y^4} =$	$\frac{18x^4y^4}{\square}$	Step 1: Multiply the numerators. Add the exponents of like bases.
$\frac{2x^3y^4}{3x} \cdot \frac{9x^2y^2}{y^4} =$	$\frac{18x^4y^4}{3xy^4}$	Step 2: Multiply the denominators. "There are no like bases, so we can't add the exponents."
$\frac{18x^4y^4}{3xy^4} =$	$\frac{6}{\square}$	Step 3: Divide the coefficients, if possible.
$\frac{18x^4y^4}{3xy^4} =$	$\frac{6x^3y}{\square}$	Step 4: Subtract the exponents of like bases. $\frac{x^4}{x} = x^3$ and $\frac{y^4}{y^4} = y$
$\frac{2x^3y^4}{3x} \cdot \frac{9x^2y^2}{y^4} =$	$6x^3y$	Final Answer!

Scientific notation must always be written with the same components as the following model:

$$1.5876 \times 10^6$$

A number in the "ones" place.

decimal

As many numbers as necessary after the decimal

$\times 10^6$ (Any positive or negative exponent.)

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David Baud



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Table of Contents Powers Of Monomials Worksheet 1984 Dale Seymour Publications

1. Understanding the eBook Powers Of Monomials Worksheet 1984 Dale Seymour Publications
 - The Rise of Digital Reading Powers Of Monomials Worksheet 1984 Dale Seymour Publications
 - Advantages of eBooks Over Traditional Books
2. Identifying Powers Of Monomials Worksheet 1984 Dale Seymour Publications
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Powers Of Monomials Worksheet 1984 Dale Seymour Publications
 - User-Friendly Interface
4. Exploring eBook Recommendations from Powers Of Monomials Worksheet 1984 Dale Seymour Publications
 - Personalized Recommendations
 - Powers Of Monomials Worksheet 1984 Dale Seymour Publications User Reviews and Ratings
 - Powers Of Monomials Worksheet 1984 Dale Seymour Publications and Bestseller Lists

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 - Powers Of Monomials Worksheet 1984 Dale Seymour Publications Public Domain eBooks
 - Powers Of Monomials Worksheet 1984 Dale Seymour Publications eBook Subscription Services
 - Powers Of Monomials Worksheet 1984 Dale Seymour Publications Budget-Friendly Options
6. Navigating Powers Of Monomials Worksheet 1984 Dale Seymour Publications eBook Formats
 - ePub, PDF, MOBI, and More
 - Powers Of Monomials Worksheet 1984 Dale Seymour Publications Compatibility with Devices
 - Powers Of Monomials Worksheet 1984 Dale Seymour Publications Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Powers Of Monomials Worksheet 1984 Dale Seymour Publications
 - Highlighting and Note-Taking Powers Of Monomials Worksheet 1984 Dale Seymour Publications
 - Interactive Elements Powers Of Monomials Worksheet 1984 Dale Seymour Publications
8. Staying Engaged with Powers Of Monomials Worksheet 1984 Dale Seymour Publications
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Powers Of Monomials Worksheet 1984 Dale Seymour Publications
9. Balancing eBooks and Physical Books Powers Of Monomials Worksheet 1984 Dale Seymour Publications
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Powers Of Monomials Worksheet 1984 Dale Seymour Publications
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Powers Of Monomials Worksheet 1984 Dale Seymour Publications
 - Setting Reading Goals Powers Of Monomials Worksheet 1984 Dale Seymour Publications
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Powers Of Monomials Worksheet 1984 Dale Seymour Publications
 - Fact-Checking eBook Content of Powers Of Monomials Worksheet 1984 Dale Seymour Publications
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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 $\frac{x^2 \cdot 36x^5 \cdot x^5 \cdot 2 \cdot 36 \cdot 3x}{}$

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