

**COLLEGE PREP**  
**SECTION 5A – GETTING READY FOR CHAPTER 5**

Objectives:

- Simplify exponential equations using the product rule, the quotient rule, the power rule, and the Law of Exponents.
- Evaluate Exponential expressions with a Zero or negative exponent.
- Convert between Scientific Notation and Decimal Notation.
- Use Scientific Notation to multiply and divide.

**NOTATION:** in the expression  $a^n$ ,  $a$  is called the **base**, and  $n$  is called the **exponent** or **power**.

**Rules for Operations with Exponents**

Operation Formula Example		
<b>Multiplying – add exponents</b>	$a^m \cdot a^n = a^{m+n}$	$x^2 \cdot x^5 = x^7$
<b>Dividing – subtract exponents</b>	$\frac{a^m}{a^n} = a^{m-n}$	$\frac{r^8}{r^3} = r^5$
<b>Power to a power – multiply exponents</b>	$(a^m)^n = a^{mn}$	$(y^3)^4 = y^{12}$
<b>Power of a product – exponent applies to each factor (like distributing)</b>	$(ab)^n = a^n b^n$	$(2c)^4 = 16c^4$
<b>Power of a quotient – exponent applies to numerator and denominator (like distributing)</b>	$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$	$\left(\frac{5}{w}\right)^3 = \frac{125}{w^3}$
<b>Power of a negative quotient – exponent applies to numerator and denominator (like distributing) This will cause everything inside to switch places.</b>	$\left(\frac{a}{b}\right)^{-n} = \frac{a^{-n}}{b^{-n}} = \frac{b^n}{a^n}$	$\left(\frac{x}{5}\right)^{-2} = \frac{x^{-2}}{5^{-2}} = \frac{5^2}{x^2}$
<b>Negative exponents – moving the exponential factor to the denominator creates a positive exponent</b>	$a^{-n} = \frac{1}{a^n}$ or $\frac{1}{a^{-n}} = a^n$	$3x^{-4} = \frac{3}{x^4}$
<b>Zero Exponents – any number or variable that has a zero exponent is always equal to 1.</b>	$\frac{a^m}{a^m} = a^0 = 1$	$\frac{x^0}{4} = \frac{1}{4}$

Note: These power rules assume that the variable does not equal 0 whenever it's in the denominator or if it is raised to the zero power.

***BEWARE of these common mistakes!!!***

Error Formula	Description	Example
$(a + b)^n \neq a^n + b^n$	Exponents <b>do not</b> distribute over addition or subtraction!	$(3 + 5)^2 \neq 3^2 + 5^2$
$\frac{a + b}{a + c} \neq \frac{b}{c}$	Like terms in fractions <b>do not</b> cancel! (Only factors cancel.)	$\frac{2 + 5}{3 + 5} \neq \frac{2}{3}$
$a^0 \neq 0$	Zero exponent <b>does not</b> mean the same as multiply by zero!	$5^0 \neq 0$
$a^{-n} \neq -a^n$	Negative exponents <b>do not</b> make a monomial negative!	$4^{-3} \neq -4^3$

# Ready To Go On Chapter 5 Section 5a

**Robert R. Redfield**



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## **Table of Contents Ready To Go On Chapter 5 Section 5a**

1. Understanding the eBook Ready To Go On Chapter 5 Section 5a
  - The Rise of Digital Reading Ready To Go On Chapter 5 Section 5a
  - Advantages of eBooks Over Traditional Books
2. Identifying Ready To Go On Chapter 5 Section 5a
  - 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 Ready To Go On Chapter 5 Section 5a
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ready To Go On Chapter 5 Section 5a
  - Personalized Recommendations
  - Ready To Go On Chapter 5 Section 5a User Reviews and Ratings

- Ready To Go On Chapter 5 Section 5a and Bestseller Lists
- 5. Accessing Ready To Go On Chapter 5 Section 5a Free and Paid eBooks
  - Ready To Go On Chapter 5 Section 5a Public Domain eBooks
  - Ready To Go On Chapter 5 Section 5a eBook Subscription Services
  - Ready To Go On Chapter 5 Section 5a Budget-Friendly Options
- 6. Navigating Ready To Go On Chapter 5 Section 5a eBook Formats
  - ePub, PDF, MOBI, and More
  - Ready To Go On Chapter 5 Section 5a Compatibility with Devices
  - Ready To Go On Chapter 5 Section 5a Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ready To Go On Chapter 5 Section 5a
  - Highlighting and Note-Taking Ready To Go On Chapter 5 Section 5a
  - Interactive Elements Ready To Go On Chapter 5 Section 5a
- 8. Staying Engaged with Ready To Go On Chapter 5 Section 5a
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ready To Go On Chapter 5 Section 5a
- 9. Balancing eBooks and Physical Books Ready To Go On Chapter 5 Section 5a
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ready To Go On Chapter 5 Section 5a
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ready To Go On Chapter 5 Section 5a
  - Setting Reading Goals Ready To Go On Chapter 5 Section 5a
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ready To Go On Chapter 5 Section 5a
  - Fact-Checking eBook Content of Ready To Go On Chapter 5 Section 5a
  - 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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