

GRADE 7 MATH LEARNING GUIDE**Lesson 21: Laws of Exponents****Time: 1.5 hours****Pre-requisite Concepts:** Multiplication of real numbers**About the Lesson:** This lesson is all about the laws of exponents.**Objectives:**

In this lesson, the students must be able to:

- 1) define and interpret the meaning of a^n where n is a positive integer;
- 2) derive inductively the Laws of Exponents (restricted to positive integers)
- 3) illustrate the Laws of Exponents.

Lesson Proper**I. Activity 1**

Give the product of each of the following as fast as you can.

- 1) $3 \times 3 =$ _____
- 2) $4 \times 4 \times 4 =$ _____
- 3) $5 \times 5 \times 5 =$ _____
- 4) $2 \times 2 \times 2 =$ _____
- 5) $2 \times 2 \times 2 \times 2 =$ _____
- 6) $2 \times 2 \times 2 \times 2 \times 2 =$ _____

II. Development of the Lesson

Discovering the Laws of Exponents

A) $a^n = a \times a \times a \times a \times a \dots (n \text{ times})$

In a^n , a is called the base and n is called the exponent**Exercises**

1) Which of the following is/are correct?

- a) $4^2 = 4 \times 4 = 16$
- b) $2^4 = 2 \times 2 \times 2 \times 2 = 8$
- c) $2^5 = 2 \times 5 = 10$
- d) $3^3 = 3 \times 3 \times 3 = 27$

2) Give the value of each of the following as fast as you can.

- a) 2^3 b) 2^5 c) 3^4 d) 10^6

Activity 2

Evaluate the following. Investigate the result. Make a simple conjecture on it. The first two are done for you.

- 1) $(2^3)^2 = 2^3 \times 2^3 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 64$
- 2) $(x^4)^3 = x^4 \times x^4 \times x^4 = x \times x \times x \times x \times x \times x \times x \times x \times x \times x \times x \times x = x^{12}$
- 3) $(3^2)^2 =$ _____
- 4) $(2^2)^3 =$ _____
- 5) $(a^2)^5 =$ _____

Grade 7 Math Learning Guide Lesson 27

Liyong Dong



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Table of Contents Grade 7 Math Learning Guide Lesson 27

1. Understanding the eBook Grade 7 Math Learning Guide Lesson 27
 - The Rise of Digital Reading Grade 7 Math Learning Guide Lesson 27
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 7 Math Learning Guide Lesson 27
 - 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 Grade 7 Math Learning Guide Lesson 27
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 7 Math Learning Guide Lesson 27
 - Personalized Recommendations
 - Grade 7 Math Learning Guide Lesson 27 User Reviews and Ratings
 - Grade 7 Math Learning Guide Lesson 27 and Bestseller Lists
5. Accessing Grade 7 Math Learning Guide Lesson 27 Free and Paid eBooks
 - Grade 7 Math Learning Guide Lesson 27 Public Domain eBooks
 - Grade 7 Math Learning Guide Lesson 27 eBook Subscription Services
 - Grade 7 Math Learning Guide Lesson 27 Budget-Friendly Options
6. Navigating Grade 7 Math Learning Guide Lesson 27 eBook Formats

- ePub, PDF, MOBI, and More
 - Grade 7 Math Learning Guide Lesson 27 Compatibility with Devices
 - Grade 7 Math Learning Guide Lesson 27 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 7 Math Learning Guide Lesson 27
 - Highlighting and Note-Taking Grade 7 Math Learning Guide Lesson 27
 - Interactive Elements Grade 7 Math Learning Guide Lesson 27
 8. Staying Engaged with Grade 7 Math Learning Guide Lesson 27
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 7 Math Learning Guide Lesson 27
 9. Balancing eBooks and Physical Books Grade 7 Math Learning Guide Lesson 27
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 7 Math Learning Guide Lesson 27
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Grade 7 Math Learning Guide Lesson 27
 - Setting Reading Goals Grade 7 Math Learning Guide Lesson 27
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Grade 7 Math Learning Guide Lesson 27
 - Fact-Checking eBook Content of Grade 7 Math Learning Guide Lesson 27
 - 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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