

## 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

**E Durkheim**



## **Grade 7 Math Learning Guide Lesson 27:**

## Unveiling the Magic of Words: A Report on "**Grade 7 Math Learning Guide Lesson 27**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Grade 7 Math Learning Guide Lesson 27**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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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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