

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 6

J Ma



Grade 7 Math Learning Guide Lesson 6:

Grade 7 Math Learning Guide Lesson 6 Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Grade 7 Math Learning Guide Lesson 6**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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