

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

Mark Steyvers

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Grade 7 Math Learning Guide Lesson 6:

Unveiling the Magic of Words: A Review of "**Grade 7 Math Learning Guide Lesson 6**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Grade 7 Math Learning Guide Lesson 6**," a mesmerizing literary masterpiece penned with 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 to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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