

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

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Grade 7 Math Learning Guide Lesson 6:

Whispering the Secrets of Language: An Psychological Journey through **Grade 7 Math Learning Guide Lesson 6**

In a digitally-driven world wherever displays reign great and quick conversation drowns out the subtleties of language, the profound strategies and psychological subtleties hidden within phrases frequently get unheard. Yet, set within the pages of **Grade 7 Math Learning Guide Lesson 6** a captivating literary prize sporting with fresh emotions, lies an extraordinary journey waiting to be undertaken. Written by a talented wordsmith, this charming opus encourages visitors on an introspective trip, softly unraveling the veiled truths and profound affect resonating within ab muscles material of every word. Within the psychological depths of this poignant review, we shall embark upon a sincere exploration of the book is primary styles, dissect its captivating publishing design, and yield to the effective resonance it evokes serious within the recesses of readers hearts.

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