

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) $(a^2)^5 =$ _____

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