

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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Brahier, 2020-03-09 Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The sixth edition has been updated and expanded with particular emphasis on the latest technology resources and standards The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success Features include The entire text has been reorganized so that assessment takes a more central role in planning and

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