

## 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

**Clifford Lane**



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