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" where n is a positive integer;
- derive inductively the Laws of Exponents (restricted to positive integers)
- illustrate the Laws of Exponents.

Lesson Proper

I. Activity I

Give the product of each of the following as fast as you can.

1)
$$3 \times 3 =$$

II. Development of the Lesson

Discovering the Laws of Exponents

A) $a^n = a \times a \times a \times a \dots$ (n 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)
$$2^3$$

Activity 2

Evaluate the following. Investigate the result. Make a simple conjecture on it. The first two are done for you.

1)
$$(2^3)^2 - 2^3 \cdot 2^3 - 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 - 64$$

3)
$$(3^2)^2 =$$

4)
$$(2^2)^3 =$$

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

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discussion and pairs or small group work Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Decide how you ll launch your lesson facilitate questioning encourage productive struggle and close your lesson Included is a lesson planning template and examples from kindergarten first and second grade classrooms Chapter by chapter the decision making strategies empower teachers to plan math lessons strategically to teach with intention and confidence and to build an exceptional foundation in math for all students Success in Reading and Writing Lisa Lord, Helen Cappleman, 1992 Educational resource for teachers parents and kids Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1965 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December Reader's Guide to Periodical Literature Supplement, 1923 Success in Reading and Writing Helen G. Cappleman, 1991 Educational resource for teachers parents and kids Children's Books in Print, 2007, 2006 Resources in Education, 1996

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