

Math 9A LG 2

POWERS AND EXPONENTS



INTRODUCTION:

Thrill-seekers around the world ... Check out pages 88-89.



LEARNING GUIDE EXPECTATIONS:

On the completion of this learning guide you will be able to:

- 1) use Exponents to describe Numbers.
- 2) understand the Exponent Laws.
- 3) use the correct Order of Operations
- 4) use Exponents to solve problems.



EVALUATION:

You are ready to progress to the next learning guide when you can demonstrate your understanding of the above expectations. Please refer to your Mathematics 9A Marks Record Sheet to determine the assessment.



RESOURCES NEEDED:



Math Links 9 Text

LEARNING ACTIVITIES:



Expectation #1: Using Exponents to Describe Numbers.



1. In the Math Links 9 text, read pages 92-93, all the purple boxes, the Literacy Link, and work through Example 1 on page 93. Now complete #4 on page 97.
2. In the Math Links 9 text, work through Example 2 on page 94. Now complete # 8 on page 97.
3. Work through Example 3 on page 95. Now complete #12 and 14 on page 97.



4. Read Key Ideas on page 96. In your math journal, complete the journal entry for LG2 Expectation 1.



Expectation #2: Exponent Laws.



1. In the Math Links 9 text, work through Example 1 on page 101. Now complete #5 on page 106.
2. In the Math Links 9 text, work through Example 2 on page 102. Now complete #9 and 11 on page 106.
3. In the Math Links 9 text, work through Example 3 on pages 102-103. Now complete #17 on pages 106-107.
4. In the Math Links 9 text, work through Example 4 on page 104.



5. Read Key Ideas on page 105. In your math journal, complete the journal entry for LG2 Expectation 2.



Expectation #3: Order of Operations.



1. In the Math Links 9 text, work through Example 1 on page 109. Now complete #5 on page 111.
2. In the Math Links 9 text, work through Example 2 on pages 110. Now complete #8 on pages 111-112.



4. Read Key Ideas on page 110. In your math journal, complete the journal entry for LG2 Expectation 3.



Expectation #4: Using Exponents to Solve Problems.



1. In the Math Links 9 text, work through Example 1 on pages 115-116. Now complete #4 on page 118.
2. In the Math Links 9 text, work through Example 2 on page 117. Now complete #5 on page 118.



5. Read Key Ideas on page 117. In your math journal, complete the journal entry for LG2 Expectation 4.

REVIEW AND CHALLENGE



1. In the Math Links 9 text, complete Chapter 3 Review pages 120-121 #1-5, 6, 7, 9, 11, 15, 17, 19, 20.