

Math 9A LG 1

RATIONAL NUMBERS



INTRODUCTION:

When you think of your favourite game... Check out pages 42 & 43.



LEARNING GUIDE EXPECTATIONS:

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

- 1) compare and order Rational Numbers.
- 2) problem solve with Rational Numbers in decimal form.
- 3) problem solve with Rational Numbers in fraction form
- 4) determine Square Roots of Rational Numbers.



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: Comparing and ordering Rational Numbers.



1. In your math journal, complete the journal entry for LG1 Expectation 1 after you read pages 46 & 47, the purple boxes on p. 47, and the Key Ideas on p. 50.



2. In the Math Links 9 text, work through Example 1 on page 48. Now complete #8 and 10 on page 51.

3. In the Math Links 9 text, work through Example 2 on page 49. Now complete #12 on page 52.

4. Work through Example 3 on page 50 and also read the Key Ideas on page 50. Now complete #15 and 17.



Expectation #2: Problem solving with Rational Numbers in Decimal Form.



1. In the Math Links 9 text, work through Example 1 on page 56. Now complete #5 on page 60.
2. In the Math Links 9 text, work through Example 2 on page 57. Now complete #7 on page 60.
3. In the Math Links 9 text, work through Example 3 on page 58. Now complete #9 and 10 on page 60.



4. Read Key Ideas on page 59. In your math journal, complete the journal entry for LG1 Expectation 2.



Expectation #3: Problem Solving with Rational Numbers in Fraction Form.



1. In the Math Links 9 text, work through Example 1 on page 64. Now complete #6 on page 68.
2. In the Math Links 9 text, work through Example 2 on page 65. Now complete #8 on page 68.
3. In the Math Links 9 text, work through Example 3 on page 66. Now complete #9 on page 68.



4. Read Key Ideas on page 59. In your math journal, complete the journal entry for LG1 Expectation 3.



Expectation #4: Determining Square Roots of Rational Numbers.



1. In the Math Links 9 text, work through Example 1 on page 74. Now complete #7, 8 on page 78.
2. In the Math Links 9 text, work through Example 2 on page 75. Now complete #10 on page 78.
3. In the Math Links 9 text, work through Example 3 on page 76. Now complete #12 on page 79.
4. In the Math Links 9 text, work through Example 4 on page 77. Now complete #13, 14 on page 79.



5. Read Key Ideas on page 77. In your math journal, complete the journal entry for LG1 Expectation 4.

REVIEW AND CHALLENGE



1. In the Math Links 9 text, complete Chapter 2 Review pages 82-83 #1-4, 6, 8, 10, 13, 14, 16, 18.