Math 8 LG 2 UNDERSTANDING PERCENT

INTRODUCTION:

Use percents to explore and learn more about the world's most valuable liquid----water. Check out Chapter 4 Opener pages 118, 119 & 121.

LEARNING GUIDE EXPECTATIONS:

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

- 1) use grids to represent percents and describe situations where a percent may be more than 100% or may be between 0% and 1%.
- 2) to find the percent represented by a given shaded region on a grid and record it in decimal, fraction and percent form.
- 3) to convert between percents, fractions, and decimals.
- 4) to solve problems involving percents and combined percents.



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 8 Marks Record Sheet to determine the assessment.

RESOURCES NEEDED:

Math Links 8 Text

^ATHSS Math 8 Learning Guides and Math 8 Journal Entries Package

LEARNING ACTIVITIES:

Expectation #1 & 2: Use grids to represent percents and describe situations where a percent may be more than 100% or may be between 0% and 1%.

1. Watch and take notes on instructional video on Representing Percent.

- 2. In the Math Links 8 text, complete the Explore the Math activity with your class on Chapter 4 Section 4.1 pages 122-123.
- 3. In the Math Links 8 text, work through Examples 1&2 on Chapter 4 Section 4.1 pages 124-127. Now complete Chapter 4 Section 4.1 #4, 5, 6, 8, 9, 10, 16 on pages 128-129.

4. Read Key Ideas on Chapter 4 Section 4.1 page 127. In your math journal, complete the journal entry for LG 2 Expectation 1 & 2.

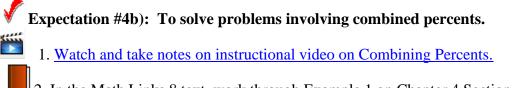
Expectation #3: To convert between percents, fractions, and decimals.

- 1. Watch and take notes on instructional video on Converting Fractions, Decimals & Percent.
- 2. In the Math Links 8 text, work through Example 1 on Chapter 4 Section 4.2 page 131. Now complete Chapter 4 Section 4.2 #4 & 5 on page 135.
- 3. In the Math Links 8 text, work through Example 2 on Chapter 4 Section 4.2 page 132. Now complete Chapter 4 Section 4.2 #6 & 7 on pages 135-136.
- 4. In the Math Links 8 text, work through Example 3 on Chapter 4 Section 4.2 page 133. Now complete Chapter 4 Section 4.2 #8 & 9 on page 136.
- 5. Read Key Ideas on Chapter 4 Section 4.2 page 135. In your math journal, complete the journal entry for LG 2 Expectation 3.
- 6. In the Math Links 8 text, complete Chapter 4 Section 4.2 #14, 16, 18, 19, 21 on pages 136-137.

Expectation #4a): To solve problems involving percents.

1. Watch and take notes on instructional video on Finding Percent of a Number.

- 2. In the Math Links 8 text, work through Example 1 on Chapter 4 Section 4.3 page 139-140. Now complete Chapter 4 Section 4.3 #3 & 4 on page 142.
- 3. In the Math Links 8 text, work through Example 2 on Chapter 4 Section 4.3 page 140-141. Now complete Chapter 4 Section 4.3 #5 & 6 on page 142.
- 4. Read Key Ideas on Chapter 4 Section 4.3 page 141. In your math journal, complete the journal entry for LG 2 Expectation 4a).
- 5. In the Math Links 8 text, complete Chapter 4 Section 4.3 #8, 9, 10, 11, 14, 16 on pages 142.



- In the Math Links 8 text, work through Example 1 on Chapter 4 Section 4.4 page 145-146. Now complete Chapter 4 Section 4.4 #4 & 5 on page 148.
- 3. In the Math Links 8 text, work through Example 2 on Chapter 4 Section 4.4 page 147.

Now complete Chapter 4 Section 4.4 #6 & 7 on pages 148-149.

4. Read Key Ideas on Chapter 4 Section 4.4 page 148. In your math journal, complete the journal entry for LG 2 Expectation 4b).

5. In the Math Links 8 text, complete Chapter 4 Section 4.4 #8, 9, 10, 13 on pages 142.

REVIEW AND CHALLENGE

1. In the Math Links 8 text, complete Chapter 4 Review #1-6, 9, 12, 14-16 on pages 150-151.