

# 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.

### 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 8 Marks Record Sheet to determine the assessment.

### RESOURCES NEEDED:


 Math Links 8 Text

 THSS 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.



**Expectation #4b): To solve problems involving combined percents.**



1. [Watch and take notes on instructional video on Combining Percents.](#)



2. 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.