Math 8 LG 8
INTEGERS

📕INTRODUCTION:

Problem solving is a key skill in mathematics. However, in order to solve problems you need to understand how to manipulate numbers from one side of an equation to the other side. In order to do this a basic knowledge of integers is necessary. Problem solving is a key skill used in the business world, and is valued on many levels as a key tool in a resume. To become a good problem solver you need to demonstrate that you are able to work with Integers in many different types of questions. This skill will help you later in life.

✔LEARNING GUIDE EXPECTATIONS:

On the completion of this learning guide you will be able to:
1)   add and subtract integers.
2)   Multiply and divide integers.
3)   Use order of operations with integers.

🖩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 Package.

LEARNING ACTIVITIES:

✔ **Expectation #1: Apply the order of operations to solve problems involving integers.**

1. Watch and take notes on instructional video on Adding & Subtracting Integers.

2. Most students seem to forget how to add and subtract integers. As a review, you should complete some practice questions located here.

Expectation #2: Multiply and Divide Integers

1. Watch and take notes on instructional video on Multiplying Integers.

2. In the Math Links 8 text, read through Examples 1 & 2 on Chapter 8 Section 8.2 pages 294-295. Now complete #4, 5, 6, 7, 8, 9, 10, 11, 12, 16, 19, 26, 29 on pages 297-299.

3. Read Key Ideas on Chapter 8 Section 8.2 page 296. In your math journal, complete the Expectation 1 question.

4. Watch and take notes on instructional video on Dividing Integers.

5. In the Math Links 8 text, work through Examples1 & 2 on Chapter 8 Section 8.4 pages 308-309. Now complete #5, 6, 7, 9, 10, 11, 12, 15, 21, 22 on Chapter 8 Section 8.4 pages 310-311.

6. Read Key Ideas on Chapter 8 Section 8.4 pages 309-310. In your math journal, complete the Expectation 2 question.

Expectation #3: Use order of operations with integers.

1. Watch and take notes on instructional video on Order of Operations.
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2. In the Math Links 8 text, work through Examples 1 & 2 on Chapter 8 Section 8.5 pages 313-314. Now complete #4, 5, 6, 7, 8, 13, 14, 19, 22, 23 on Chapter 8 Section 8.5 page 315-317.

3. In your math journal, answer the Expectation 3 question.

REVIEW AND CHALLENGE

1. In the Math Links 8 text, complete Chapter 8 Review #1-3, 5-11, 13-24 on pages 318-319.