Unit 2 Study Guide: Operations and Algebraic Thinking: The Relationship Between Multiplication and Division

Tentative Test Date:

Text Book Lessons:

- Lesson 4-6 Using Line Plots to Organize Data
- Lesson 4-7 Reading Pictographs and Bar Graphs
- Lesson 4-11 Making Pictographs
- Lesson 4-12 Making Bar Graphs
- Lesson 5-1 Multiplication as Repeated Addition
- Lesson 5-2 Arrays and Multiplication
- Lesson 5-4 Problem-Solving Strategy: Make a Table
- Lesson 5-7 10 as a Factor
- Lesson 5-8 Problem-Solving Skill: Multi-Step Problems
- Lesson 5-11 Practicing Multiplication Facts
- Lesson 6-9 Multiplying with Three Factors

In this unit, students will:

- Interpret products of whole numbers
- Interpret whole-number quotients of whole numbers
- Use multiplication and division within 100 to solve world problems
- Determine the unknown whole number in a multiplication or division equation relating three whole numbers
- Apply properties of operations as strategies to multiply or divide
- Understand division as an unknown-factor problem
- Multiply one-digit whole numbers by multiples of 10 using place value strategies
- Multiply and divide within 100 using strategies and properties of operations
- Draw a scaled bar and picture graph and answer questions like "how many more" and "how many less" using the data from the graph
- Make a line plot using rulers marked with halves and fourths of an inch.

Web Resources

- (IXL):
    - Multiplication (E Lessons 1-8)
    - Graphing-- line plots, bar graphs, pictographs (All P Lessons)
    - Multi-Step Problems (I-4, I-5, and I-7)
    - Properties (J-5, J-6, and J-9)

Vocabulary

- Equation
- Divide
- Equally
- Array
- Value
- Distributive Property
- Properties

- Compare
- Bar graph
- Line plot
- Pictograph
- Conclusion
- Quarter Inch
- Half inch