

Study Guide for Unit 1 (Math 5)

Key Concepts:

1. Place Value and Powers of Ten

- Understand how multiplying by powers of 10 shifts the digits to the left.
- Example: 10 times as much as 900 is 9,000 (because $900 \times 10 = 9,000$).

2. Reading Large Numbers

- Be able to identify digits in different place values, such as the hundred thousands place.
- Example: In 7,  32,465, the digit in the hundred thousands place is 9.

3. Multiplication and Division for Problem Solving

- Be able to apply multiplication and division to solve real-world problems.
- Example: Calculating hours of sleep in a year based on weekly hours of sleep, or how many 50-pound bags of soil you can fill from a cubic yard.

4. Word Problems and Rate Problems

- Use division to find how long it takes to complete a task based on a constant rate.
- Example: How long will it take to drain a pond of 2,106 gallons at a rate of 78 gallons per hour?

5. Estimation and Rounding

- Estimating reasonable values for large numbers based on multiplication or division.
- Example: Estimating how many bags of topsoil you can fill with a cubic yard of soil.

6. Basic Operations with Fractions and Decimals

- Understanding fractions and decimals in the context of real-world problems.

5th Grade Math Unit Study Guide

RS Peters



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Resources in Education, 1979 *Eureka Math Grade 5 Study Guide* Great Minds, 2015-11-09 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 5 provides an overview of all of the Grade 5 modules including Place Value and Decimal Fractions Multi Digit Whole Number and Decimal Fraction Operations Addition and Subtraction of Fractions Multiplication and Division of Fractions and Decimal Fractions Addition and Multiplication with Volume and Areal Problem Solving with the Coordinate Plane [Eureka Math Pre-K Study Guide](#) Great Minds, 2016-08-02 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the

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