

## 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, **9**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.

# Grade 5 Math Study Guide

**IM Harris**



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