



Dear Seventh Grade Families,

In Unit 2, students will work on the following seventh grade Common Core standards in Number System (NS) domain.

7.NS.2a-c	<p>Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.</p> <p>a. Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as $(-1)(-1) = 1$ and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts.</p> <p>b. Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers, then $-(p/q) = (-p)/q = p/(-q)$. Interpret quotients of rational numbers by describing real-world contexts.</p> <p>c. Apply properties of operations as strategies to multiply and divide rational numbers.</p>
7.NS.3	Solve real-world and mathematical problems involving the four operations with rational numbers.

Unit 2 Concepts:

- Multiply & divide integers
- Multiply & divide rational numbers
- Properties of multiplication and division
- Apply strategies to multiply and divide rational numbers

$$\text{dividend} \div \text{divisor} = \text{quotient}$$

$$\text{factor} \times \text{factor} = \text{product}$$

Unit 2 Vocabulary:

- Commutative Property
- Order of Operations
- Distributive Property
- Reciprocal
- Inverse
- Irrational number
- Terminating decimal
- Repeating decimal

Ask questions like these to help your seventh grader as a productive mathematical thinker:

- How does it help you to know decimal equivalents to benchmark fractions?
- When you multiply a negative number by a positive number, is the product positive or negative? Show me a visual representation to prove your understanding.
- When dividing fractions, why do you flip over the divisor and change the operation from division to multiplication?
- What are some real-world examples of multiplying or dividing rational numbers?

Need a review? Check out our lesson videos on-line!
swunmath.com/student-videos
 If you don't know the class's special name, ask your child's teacher.

We encourage you to talk with your child daily about what was learned in math class.
 Thank you for your support!