

Options FRMS Math 6A 2020		Scope and Sequence
Unit	Lesson	Objectives
Understanding Fractions and Decimals		
Rational Numbers		
		Represent positive and negative rational numbers on vertical and horizontal number lines.
		Write a rational number as a decimal that eventually terminates or repeats.
		Describe real-world situations that can be represented by rational numbers, including where opposite quantities combine to make 0.
Prime Numbers and Prime Factorization		
		List the factors of a number.
		Identify a number as prime or composite.
		Represent a number as the product of its prime factors, using exponents to show repeated factors.
Factors and Multiples		
		Determine the greatest common factor of two numbers.
		Determine the least common multiple of two numbers.
		Apply greatest common factors and least common multiples to solve real-world problems.
Adding and Subtracting Fractions		
		Use visual representations to add and subtract fractions.
		Estimate sums and differences of fractions.
		Describe real-world contexts for adding and subtracting fractions.
Unit Test		
Geometry		
Area and Perimeter in Context		
		Solve problems in context using geometric models

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		Distinguish between problems requiring area and perimeter formulas
	Perimeter	
		Recognize perimeter as a geometric property of plane figures
		Write formulas for and calculate perimeters of plane figures
		Use unit analysis to solve problems involving perimeter
		Write and use formulas for circumference
	Perimeter of Composite Figures	
		Calculate perimeters of many-sided plane figures using combinations of formulas
		Use unit analysis to solve problems involving perimeters
	Area of Parallelograms	
		Use the formula $A = bh$ to find the area of a parallelogram.
		Solve real-world problems involving the area of parallelograms.
	Area of Triangles	
		Calculate the area of triangles using the formula $A = \frac{1}{2}bh$.
		Solve real-world problems involving the area of triangles.
	Unit Test	
Variables and Expressions		
	Expressions with Unknowns	
		Read and write algebraic expressions.
		Use algebraic expressions to model real-world situations involving addition.
		Use algebraic expressions to model real-world situations involving subtraction.
	Writing and Evaluating Expressions	

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		Write algebraic expressions containing one operation.
		Evaluate algebraic expressions containing one operation.
	Writing Equations to Find Unknowns	
		Differentiate between expressions and equations.
		Translate simple word problems into one-step equations.
		Use substitution to determine whether a given number is a solution of a one-step equation.
	Unit Test	
Dividing Fractions		
	Dividing a Fraction by a Whole Number	
		Divide a fraction by a whole number equal to the fraction's denominator in real-world situations.
		Divide a fraction by a whole number using an equivalent fraction in real-world situations.
	Using Visual Models in Fraction Division	
		Use models to divide a whole number by a whole number.
		Use models to divide a whole number by a fraction.
	Dividing a Fraction by a Fraction	
		Use models to divide a fraction by a fraction.
	Finding a Rule for Dividing Fractions	
		Use the standard algorithm to divide fractions.
	Fraction Multiplication and Division	
		Solve real-world problems using fraction multiplication or division.

Unit	Lesson
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Objectives

Unit Test
