

Options FRMS Math 6A-OR		Scope and Sequence
Unit	Lesson	Objectives
Reasoning about Ratios: Part One		
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.
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.
Describing Part-to-Part Relationships		
		Describe ratio relationships between two quantities using informal language.
		Use models to represent relationships between quantities.
		Analyze how a change in a quantity affects a part-to-part relationship.
Using Ratio Notation		
		Use the notation of ratio language to describe relationships between two quantities.
Equivalent Ratios		
		Analyze patterns in a table of equivalent ratios.

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		Find missing values in a table using ratio reasoning.
	Understanding Unit Rates	
		Find unit rates.
	Ratios in Real-World Situations	
		Compare ratios in real-world contexts.
	Plotting Equivalent Ratios	
		Plot tables of equivalent ratios on the coordinate plane.
		Identify patterns of plots of equivalent ratios.
	Analyzing Equivalent Ratios in the Coordinate Plane	
		Analyze the graph of equivalent ratios plotted on the coordinate plane.
		Use the language of ratios to explain the graph of equivalent ratios in real-world contexts.
	Unit Test	
Reasoning about Ratios: Part Two		
	Measurements in the Customary System	
		Convert units of measurement in the customary system.
		Solve real-world problems by converting customary measurement units.
	Measurements in the Metric System	
		Convert units of measurement in the metric system.
		Solve real-world problems by converting metric measurement units.
	Understanding Speed	
		Find speed given distance and time.
		Convert measures of speed within a system.

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	Solving Speed Problems	
		Find time given distance and speed.
		Find distance given time and speed.
		Compare speeds.
	Unit Pricing	
		Find unit prices.
		Solve unit rate problems involving unit pricing.
	Other Rate Problems	
		Find unit rates.
		Solve real-world problems using unit rates.
	Unit Test	
Operations		
	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.
	The Distributive Property	
		Use the distributive property to generate equivalent expressions.
	Dividing Whole Numbers	
		Divide whole numbers.
		Write remainders as terminating or repeating decimals.
	Dividing Decimals	

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		Divide whole numbers by decimals.
		Divide decimals by decimals.
		Use estimation to determine reasonableness.
	Real-World Decimal Problems with Multiplication and Division	
		Solve real-world problems using decimal multiplication.
		Solve real-world problems using decimal division.
	Fraction Multiplication	
		Multiply fractions using models.
		Multiply fractions using the standard algorithm.
		Estimate solutions and solve real-world single and multistep problems involving fraction multiplication.
	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.
	Multistep Word Problems with Fractions and Decimals	
		Identify key information for solving two-step word problems, including question, problem type, and order of operations needed.
		Use estimation to determine if a solution is reasonable.
		Real-World Application: Solve real-world problems with two operations involving fractions and/or decimals.

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Percent		
	Understanding Percent	
		Represent a portion of a set with a ratio.
		Translate ratios of part: whole and part/whole as percents.
		Use models to illustrate the meaning of percents.
		Compare ratios and percents of sets with different base units.
	Using Equivalent Ratios to Find Percents	
		Represent percent problems using equivalent ratios.
		Use patterns in equivalent ratios to find the percent of a whole.
	Using Equivalent Ratios to Find a Whole	
		Represent percent problems using equivalent ratios.
		Use patterns in equivalent ratios to find the whole, given the percent.
	Performance Task: Neighbors Helping Neighbors	
	Unit Test	
Expressions		
	Numerical Expressions with Exponents	
		Write numerical expressions including expressions containing whole number exponents.
		Evaluate numerical expressions including expressions containing whole number exponents.
	Expressions with Unknowns	
		Read and write algebraic expressions.
		Use algebraic expressions to model real-world situations involving addition.

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		Use algebraic expressions to model real-world situations involving subtraction.
	Expressions to Represent Multiplication and Division Problems	
		Use algebraic expressions to model real-world situations involving multiplication.
		Use algebraic expressions to model real-world situations involving division.
	Writing and Evaluating Expressions	
		Write algebraic expressions containing one operation.
		Evaluate algebraic expressions containing one operation.
	Expressions with More Than One Operation	
		Write algebraic expressions containing more than one operation.
		Use the order of operations to evaluate algebraic expressions containing more than one operation.
	Expressions with and without Parentheses	
		Write algebraic expressions containing more than one operation, with and without parentheses.
		Use the order of operations to evaluate algebraic expressions containing more than one operation, with and without parentheses.
	Working with Formulas	
		Evaluate scientific and mathematical formulas for given values.
	Equivalent Expressions	
		Generate equivalent expressions using the commutative and associative properties.
		Use substitution to determine if two expressions are equivalent.
	Equivalent Expressions and the Distributive Property	
		Generate equivalent expressions using the distributive property.
		Use substitution to determine if two expressions are equivalent.

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	Determining Equivalent Expressions	
		Determine whether two expressions are equivalent.
		Explain why two expressions are equivalent or not equivalent.
	Unit Test	