

| Options FRMS Math 7A-OR | Scope and Sequence |
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| Unit Lesson | Objectives |
| Ratios and Proportions: Part One | |
| Unit Rates | |
| | Use appropriate language to describe ratios and unit rates. |
| | Use a given unit rate and proportional reasoning to complete a table. |
| | Use a given unit rate and proportional reasoning to solve problems. |
| Applications of Unit Rates | |
| | Determine a unit rate from a real-world context. |
| | Apply unit rates to solve for an unknown in real-world problems. |
| | Use unit rates to make comparisons. |
| Finding a Constant of Proportionality | |
| | Find the constant of proportionality from verbal descriptions, tables, graphs, and diagrams. |
| Graphing Proportional Relationships | |
| | Graph a proportional relationship from tables and verbal descriptions. |
| | Identify the meanings of points on the graph of a proportional relationship and determine the characteristics of the graph of a proportional relationship. |
| Identifying Proportional Relationships | |
| | Analyze data in tables and graphs to determine if the given relationships are proportional. |
| Equations of Proportional Relationships | |
| | Identify the constant of proportionality from an equation. |
| | Write an equation to represent a proportional relationship. |

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| Unit | Lesson | Objectives |
| | | Translate between tables, graphs, and equations to represent proportional relationships. |
| | Scale Factor | |
| | | Use a given scale factor to find an unknown length on a reduction or enlargement. |
| | | Use a given scale factor to find an unknown length on an original. |
| | Determining a Scale Factor | |
| | | Identify a scale factor from given dimensions and use it to calculate unknown dimensions. |
| | Solving Scale Problems Using Proportions | |
| | | Use proportional relationships to solve problems involving scale drawings. |
| | Scale Drawings and Area | |
| | | Compute areas of figures from scale drawings. |
| | Unit Test | |
| Ratios and Proportions: Part T | | |
| | Finding a Percent of a Number | |
| | | Solve problems by finding the percent of a number, including amounts of gratuity and tax, by using diagrams and expressions. |
| | | Find the percent of a number when the percent is more than 100. |
| | Estimating with Percents | |
| | | Make use of estimation strategies such as a benchmark percent, approximate fraction, decimal equivalent, or rounded numbers to find the percent of a number in real-world situations. |
| | | Use the distributive property to estimate percents that are more than 100. |
| | | Use estimations to verify the reasonableness of an answer. |
| | Markups and Markdowns | |

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| Unit | Lesson | Objectives |
| | | Solve real-world problems involving a markup or markdown relating each as adding or subtracting from the original. |
| | Simple Interest | |
| | | Calculate simple interest, principal, time, and total using the simple interest formula. |
| | | Apply the simple interest formula in the context of a word problem. |
| | Percent Increase and Decrease | |
| | | Find the percent change by using the ratio of the change in quantity to the original amount. |
| | | Use percent increase and decrease to solve real-world problems. |
| | Performance Task: Trendy Teens | |
| | Unit Test | |
| Operations on Rational Numbers: Part One | | Part One |
| | Integers and the Number Line | |
| | | Represent and compare integers on vertical and horizontal number lines. |
| | | Find the absolute value of an integer. |
| | | Describe real-world situations that can be represented by integers, including where opposite quantities combine to make 0. |
| | Using Properties of Operations | |
| | | Apply the associative and commutative properties of operations to simplify expressions. |
| | | Apply the distributive property to rewrite and evaluate expressions. |
| | Multiplying Integers | |
| | | Use visual representations to multiply integers. |
| | | Apply properties of operations and rules of signed numbers to multiply integers. |

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| Unit | Lesson | Objectives |
| | | Describe real-world contexts for multiplying integers. |
| | Dividing Integers | |
| | | Use visual representations to divide integers. |
| | | Apply properties of operations and rules of signed numbers to divide integers. |
| | | Describe real-world contexts for dividing integers. |
| | Solving Problems Involving Integers | |
| | | Apply properties of operations to solve real-world and mathematical problems involving more than one operation with integers. |
| | Unit Test | |
| Oper | ations on Rational Numbers: I | Part Two |
| | 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. |
| | Adding and Subtracting Decimals | |
| | | Use visual representations to add and subtract decimals. |
| | | Apply properties of operations to add and subtract decimals. |
| | | Estimate sums and differences of decimals. |
| | | Describe real-world contexts for adding and subtracting decimals. |
| | Multiplying Decimals | |
| | | Use the rules of signed numbers to multiply decimals. |

| Options FRMS Math 7A-OR | | Scope and Sequence |
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| Unit | Lesson | Objectives |
| | | Apply properties of operations to multiply decimals. |
| | | Estimate products of decimals. |
| | | Describe real-world contexts for multiplying decimals. |
| | Dividing Decimals | |
| | | Use the rules of signed numbers to divide decimals. |
| | | Apply properties of operations to divide decimals. |
| | | Estimate quotients of decimals. |
| | | Describe real-world contexts for dividing decimals. |
| | Solving Problems Involving Decimals | |
| | | Solve real-world and mathematical problems involving addition, subtraction, multiplication, and division with decimals. |
| | 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. |
| | Multiplying Fractions | |
| | | Use the rules of signed numbers and visuals to multiply fractions. |
| | | Apply properties of operations to multiply fractions. |
| | | Estimate products of fractions. |
| | | Describe real-world contexts for multiplying fractions. |
| | Dividing Fractions | |
| | | Use the rules of signed numbers to divide fractions. |

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| Unit | Lesson | Objectives |
| | | Apply properties of operations to divide fractions. |
| | | Estimate quotients of fractions. |
| | | Describe real-world contexts for dividing fractions. |
| | Solving Problems Involving Rational Numbers | |
| | | Solve real-world and mathematical problems involving addition, subtraction, multiplication, and division with rational numbers. |
| | Unit Test | |
| Expr | essions | |
| | Understanding Expressions | |
| | | Write and evaluate numerical expressions. |
| | | Identify the parts of an algebraic expression. |
| | Writing and Evaluating Expressions | |
| | | Write expressions to represent real-world situations. |
| | | Evaluate expressions for real-world situations. |
| | Using Properties to Simplify Expressions | |
| | | Simplify expressions using properties of operations and combining like terms. |
| | Adding and Subtracting Expressions | |
| | | Add algebraic expressions and use them to model real-world scenarios. |
| | | Subtract algebraic expressions and use them to model real-world scenarios. |
| | Expanding Expressions | |
| | | Use the distributive property to expand and simplify algebraic expressions. |

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| Unit Lesson | Objectives |
| | Identify equivalent expressions. |
| Factoring Expressions | |
| | Find the greatest common factor of an algebraic expression. |
| | Rewrite algebraic expressions by factoring. |
| Real-World Application Expressions | ns of |
| | Write, simplify, and evaluate multi-term expressions to solve problems. |
| Unit Test | |
| Cumulative Exam | |
| Cumulative Exam Rev | iew |
| Cumulative Exam | |