|  |
| --- |
| **Mathematics Grade 6** |
| **Unit 1: Fluently Divide Whole Numbers** |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **5 Days**  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | How are quotients of multi-digit numbers found? | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with multi-digit numbers using the four arithmetic operations with or without a calculator. | Lesson 6-2 Divide Whole NumbersSWBA to find the quotients of two whole numbers and solve division equations.enVision Math 2.0 Grade 6Pgs. 279-284 | QuotientsWhole Numbers DividendDivisor  | CC.2.1.6.E.2M06.A-N.2.1.1 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | How are quotients of multi-digit numbers found? | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with multi-digit numbers using the four arithmetic operations with or without a calculator. | Lesson 6-3 Continue to Divide Whole NumbersSWBA to fluently divide greater whole numbers,envVsion Math 2.0 Grade 6Pgs. 285-290 | QuotientsWhole Numbers DividendDivisor  | CC.2.1.6.E.2M06.A-N.2.1.1 |
|  **Review Unit 1**  **Fluently Divide Whole Numbers** |
|  **Test Common Assessment Unit 1**  **Fluently Divide Whole Numbers** |
|  **Unit 2 Fluently Add, Subtract, Multiply and Divide Decimals** |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **9-10 Days**  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | How can you fluently add, subtract, multiply and divide decimals? | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with multi-digit decimal numbers using the four arithmetic operations with or without a calculator, using the standard algorithm for each operation. | Lesson 7-1 Estimate Sums and DifferencesSWBA to estimate the sums and differences of decimals,enVision Math 2.0 Grade 6Pgs. 319-324 | Estimate SumDifference | CC.2.1.6.E.2M06.A-N.2.1.1 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | How can you fluently add, subtract, multiply and divide decimals? | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with multi-digit decimal numbers using the four arithmetic operations with or without a calculator, using the standard algorithm for each operation. | Lesson 7-2 Add and Subtract DecimalsSWBA to find the sum and difference of problems involving decimals.enVision Math 2.0 Grade 6Pgs. 325-330 | SumDifference | CC.2.1.6.E.2M06.A-N.2.1.1 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | How can you fluently add, subtract, multiply and divide decimals? | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with multi-digit decimal numbers using the four arithmetic operations with or without a calculator, using the standard algorithm for each operation. | Lesson 7-3 Estimate ProductsSWBA to estimate the products of decimals,enVision Math 2.0 Grade 6Pgs. 331-336 | Estimate Product | CC.2.1.6.E.2M06.A-N.2.1.1 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | How can you fluently add, subtract, multiply and divide decimals? | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with multi-digit decimal numbers using the four arithmetic operations with or without a calculator, using the standard algorithm for each operation. | Lesson 7-4 Multiply DecimalsSWBA to multiply decimals.enVision Math 2.0 Grade 6Pgs. 337-342 | Product | CC.2.1.6.E.2M06.A-N.2.1.1 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | How can you fluently add, subtract, multiply and divide decimals? | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with multi-digit decimal numbers using the four arithmetic operations with or without a calculator, using the standard algorithm for each operation. | Lesson 7-5 Divide Decimals by a Whole NumberSWBA to divide decimals by a Whole number.enVision Math 2.0 Grade 6Pgs. 343-348 | Quotient | CC.2.1.6.E.2M06.A-N.2.1.1 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | How can you fluently add, subtract, multiply and divide decimals? | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with multi-digit decimal numbers using the four arithmetic operations with or without a calculator, using the standard algorithm for each operation. | Lesson 7-6 Divide Decimals SWBA to use different strategies to divide decimals.enVision Math 2.0 Grade 6Pgs. 349-354 | Quotient | CC.2.1.6.E.2M06.A-N.2.1.1 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | How can you fluently add, subtract, multiply and divide decimals? | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with multi-digit decimal numbers using the four arithmetic operations with or without a calculator, using the standard algorithm for each operation. | Lesson 7-7 Continue to Divide Decimals SWBA to divide decimals to find solution to real-world problems..enVision Math 2.0 Grade 6Pgs. 355-360 | Quotient | CC.2.1.6.E.2M06.A-N.2.1.1 |
|  **Review Unit 2** **Fluently Add, Subtract, Multiply and Divide Decimal** |
|  **Test Common Assessment Unit 2**  **Fluently Add, Subtract, Multiply and Divide Decimal** |
| **Unit 3 Common Factors and Multiples** |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **6 Days**  | Compute fluently with multi-digit numbers and find common factors and multiples. | How will I apply the concept of prime and composite numbers to find common factors when simplifying fractions? | Develop and/or apply number theory concepts to find common factors and multiples. | Student should be able to use factors, multiples, prime factorization, and prime numbers to solve problems. | Lesson 8-1 Prime and Composite NumbersSWBA to identify prime and composite number and write the Prime factorization of a number.enVision Math 2.0 Grade 6Pgs. 391-396 | Prime NumberComposite NumberPrime factorization. | CC.2.1.6.E.3M06.A-N.2.2.1 |
|  | Compute fluently with multi-digit numbers and find common factors and multiples. | How will I apply the concept of prime and composite numbers to find common factors when simplifying fractions? | Develop and/or apply number theory concepts to find common factors and multiples. | Student should be able to use factors, multiples, prime factorization, and prime numbers to solve problems. | Lesson 8-2 Find the Greatest Common FactorSWBA to find the greatest common factor of two numbersenVision Math 2.0 Grade 6Pgs. 397-402 | Greatest Common Factor (GCF) | CC.2.1.6.E.3M06.A-N.2.2.1 |
|  | Compute fluently with multi-digit numbers and find common factors and multiples. | How will I apply the concept of prime and composite numbers to find common factors when simplifying fractions? | Develop and/or apply number theory concepts to find common factors and multiples. | Student should be able to use factors, multiples, prime factorization, and prime numbers to solve problems. | Lesson 8-3 Least Common MultipleSWBA to find the least common multiple of two numbersenVision Math 2.0 Grade 6Pgs. 403-408 | Common MultiplesLeast Common Multiple (LCM) | CC.2.1.6.E.3M06.A-N.2.2.1 |
|  | Compute fluently with multi-digit numbers and find common factors and multiples. | How will I apply the concept of prime and composite numbers to find common factors when simplifying fractions? | Develop and/or apply number theory concepts to find common factors and multiples. | Student should be able to use factors, multiples, prime factorization, and prime numbers to solve problems. | Lesson 8-4 Critique ReasoningSWBA to critique the reasoning of others using what they know about factors & multiplesenVision Math 2.0 Grade 6Pgs. 409-414 | Counterexample | CC.2.1.6.E.3M06.A-N.2.2.1 |
|  **Review Unit 3** **Common Factors & Multiples** |
|  **Test Common Assessment Unit 3**   **Common Factors & Multiples** |
| **Unit 4: Understand Numerical and Algebraic Expressions** |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **15 Days**  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What are expressions and how can they be written and evaluated? | Write & evaluate numerical expressions involving whole-number exponents  | Student should be able to write mathematical expressions and equations that correspond to given situations, evaluate expressions, and use expressions and formulas to solve problems. | Lesson 1-1 ExponentsSWBA to write and evaluate numbers using exponents.enVision Math 2.0 Grade 6Pgs. 7-12 | ExponentBase Power | CC.2.2.6.B.1M06.B-E.1.1.1 |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. |  What are expressions and how can they be written and evaluated? | Understand meanings of operations, use operations & understand how they relate to each other  | Student should be able to evaluate expressions, and use expressions and formulas to solve problems. | Lesson 1-2 Evaluate Numerical ExpressionsSWBA to use the order of operations to evaluate numerical expressions with decimals and fractions.enVision Math 2.0 Grade 6Pgs. 13-18 | Order of Operations  | CC.2.2.6.B.1M06.B-E.1.1 |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What are expressions and how can they be written and evaluated? | Represent and/or analyze mathematical situations & structures using algebraic symbols, words, tables & graphs  | Student should be able to writeexpressions and equations that correspond to given situations, evaluate expressions, and use expressions and formulas to solve problems. | Lesson 1-3 Use Variables to Write ExpressionsSWBA to use variables to write algebraic expressions.enVision Math 2.0 Grade 6Pgs. 19-24 | ExpressionVariables | **CC.2.2.6.B.1****M06.B-E.1.1.2*****6.EE.A.2a******6.EE.A.B.6*** |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What are expressions and how can they be written and evaluated? | Represent and/or analyze mathematical situations & structures using algebraic symbols, words, tables & graphs  | Student should be able to writeexpressions and equations that correspond to given situations, evaluate expressions, and use expressions and formulas to solve problems. | Lesson 1-4 Identify Parts of an Expressions.SWBA to use specific math words to describe parts of mathematical expressions.enVision Math 2.0 Grade 6Pgs. 25-30 | Term | CC.2.2.6.B.1M06.B-E.1.1*6.EE.A.2b* |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What are expressions and how can they be written and evaluated? | Understand meanings of operations, use operations & understand how they relate to each other. Evaluate expressions at specific values of their variables | Student should be able to write mathematical expressions and equations that correspond to given situations, evaluate expressions, and use expressions and formulas to solve problems. | Lesson 1-5 Evaluate Algebraic Expressions.SWBA to use substitution toevaluate algebraic expressions.enVision Math 2.0 Grade 6Pgs. 31-36 | Evaluate Substitution | CC.2.2.6.B.1M06.B-E.1.1.4**6.EE.A.2c****6.EE.B.6** |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | How are quotients of multi-digit numbers found? | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with multi-digit numbers using the four arithmetic operations with or without a calculator. | Lesson 6-4 Evaluate expressionsSWBA to substitute given numbers in a formula to find a missing value.enVision Math 2.0 Grade 6Pgs. 291-296 | QuotientsSubstituteEvaluate Algebraic expression | CC.2.2.6.B.1M06.B-E.1.1.4 |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What are expressions and how can they be written and evaluated? | Understand meanings of operations, use operations & understand how they relate to each other  | Student should be able to write mathematical expressions and equations that correspond to given situations, evaluate expressions, and use expressions and formulas to solve problems. | Lesson 7-8 Evaluate Expressions with DecimalsSWBA to evaluate an algebraic expression with decimals enVision Math 2.0 Grade 6Pgs. 361-366 | Evaluate | CC.2.2.6.B.1M06.B-E.1.1.4**6.EE.A.3****6.EE.A.4** |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What are expressions and how can they be written and evaluated? | Understand meanings of operations, use operations & understand how they relate to each other  | Student should be able to apply the properties of operations to generate equivalent expressions | Lesson 1- 6 Write Equivalent ExpressionsSWBA to use the properties of operations to write equivalent expressions.enVision Math 2.0 Grade 6Pgs. 37-42 | Equivalent ExpressionsCommutative PropertyAssociative PropertyDistributive Property | CC.2.2.6.B.1M06.B-E.1.1.5**6.EE.A.3****6.EE.A.4** |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What are expressions and how can they be written and evaluated? | Understand meanings of operations, use operations & understand how they relate to each other | Student should be able to write mathematical expressions and equations that correspond to given situations, evaluate expressions, and use expressions and formulas to solve problems. | **Lesson 1-7** Simplify Algebraic Expressions.SWBA to combine like terms in algebraic expressions.enVision Math 2.0 Grade 6Pgs. 43-48 | SimplifyTermsLike Terms | **CC.2.2.6.B.1****M06.B-E.1.1.4** |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What are expressions and how can they be written and evaluated? | Understand meanings of operations, use operations & understand how they relate to each other  | Student should be able to apply the properties of operations to generate equivalent expressions | Lesson 1- 8 Equivalent ExpressionsSWBA to identify equivalent algebraic expressions.enVision Math 2.0 Grade 6Pgs. 49-54 | Commutative PropertyAssociative PropertyDistributive Property | CC.2.2.6.B.1M06.B-E.1.1.5**6.EE.A.3****6.EE.A.4** |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | How do you translate given situations into math expressions and equations and formulas and use these to solve problems? | Represent and/or analyze mathematical situations & structures using algebraic symbols, words, tables, graphs & common formulas | Student should be able to write mathematical expressions and equations that correspond to given situations, evaluate expressions, and use expressions and formulas to solve problems. | Lesson 1- 9 FormulasSWBA touse formulas to solve problemsenVision Math 2.0 Grade 6Pgs. 55-60 | Formulas | **CC.2.2.6.B.3****M06.B-E.3.1.1****6.EE.A.2.C** |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | How do you translate given situations into math expressions and equations and formulas and use these to solve problems? | Represent and/or analyze mathematical situations & structures using algebraic symbols, words, tables, graphs & common formulas | Student should be able to write mathematical expressions and equations that correspond to given situations, evaluate expressions, and use expressions and formulas to solve problems. | Lesson 1- 10 Look For and Use StructureSWBA tolook for and use structure to analyze algebraic expressions.enVision Math 2.0 Grade 6Pgs. 65-66 |  | **CC.2.2.6.B.3****M06.B-E.3.1.1****6.EE.A.2.C** |
|  **Review Unit 4 Numerical and Algebraic Expressions** |
|  **Test Common Assessment Unit 4 Numerical and Algebraic Expressions** |
| **Unit 5 Solving Equations and Inequalities** |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **12 Days**  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What procedures can be used to solve equations and inequalities? | Understand solving an equation as a process of answering a question: which value(s) make the equations true? | Student should be able to solve equations by using the inverse operation & applying knowledge of mathematical properties | Lesson 2- 1 Understand Equations and SolutionsSWBA to find a value for a variable that makes an equation true.enVision Math 2.0 Grade 6Pgs. 83-88 |  | 6.EE.B.5CC.2.2.6.B.2M06.B-E.2.1 |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What procedures can be used to solve equations and inequalities? | Understand solving an equation as a process of answering a question: which value(s) make the equations true? | Student should be able to solve equations by using the inverse operation & applying knowledge of mathematical properties | Lesson 2-2 Properties of EqualitiesSWBA to use the properties of equalities to write equivalent equations,enVision Math 2.0 Grade 6Pgs. 89-94 | Addition Property of EqualitySubtraction Property of EqualityMultiplication Property of EqualityDivision Property of Equality | CC.2.2.6.B.2M06.B-E.2.1 |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What procedures can be used to solve equations and inequalities? | Understand solving an equation as a process of answering a question: which value(s) make the equations true? | Student should be able to solve equations by using the inverse operation & applying knowledge of mathematical properties | Lesson 2-3 Solving Addition and Subtraction Equations.SWBA to solve an addition and subtraction equation.enVision Math 2.0 Grade 6Pgs. 93-100 | Equation | CC.2.2.6.B.2M06.B-E.2.16.EE.B.66.EE.B.7 |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What procedures can be used to solve equations and inequalities? | Understand solving an equation as a process of answering a question: which value(s) make the equations true? | Student should be able to solve equations by using the inverse operation & applying knowledge of mathematical properties | Lesson 2-4 Solving Multiplication and Division EquationsSWBA to solve a multiplication and division equations.enVision Math 2.0 Grade 6Pgs. 101-106 | Equation | CC.2.2.6.B.2M06.B-E.2.16.EE.B.66.EE.B.7 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | How are quotients of multi-digit numbers found? | Compute accurately & fluently and make reasonable estimates.Understand solving an equation as a process of answering a question: which value(s) make the equations true? | Student should be able to compute with multi-digit numbers using the four arithmetic operations with or without a calculator.Student should be able to solve division equations by using the inverse operation & applying knowledge of mathematical properties | Lesson 6-5 Solve Division EquationsSWBA to write and solve equations that involve division.enVision Math 2.0 Grade 6Pgs. 297-302 |  Variable | **CC.2.2.6.B.2****M06.B-E.2.1****6.EE.A.2c****6.NS.B.2** |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What procedures can be used to solve equations and inequalities? | Understand solving an equation as a process of answering a question: which value(s) make the equations true? | Student should be able to solve equations by using the inverse operation & applying knowledge of mathematical properties | Lesson 7-9 Solve Equations with DecimalsSWBA to solve algebraic equations that include decimals.enVision Math 2.0 Grade 6Pgs. 367-372 | Equation | CC.2.2.6.B.2M06.B-E.2.1 |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What procedures can be used to solve equations and inequalities? | Understand solving an equation as a process of answering a question: which value(s) make the equations true? | Student should be able to solve equations by using the inverse operation & applying knowledge of mathematical properties | Lesson 2-5 Solve Equations with FractionsSWBA to solve equations that include fractions.enVision Math 2.0 Grade 6Pgs. 107-112 | Equation | CC.2.2.6.B.2M06.B-E.2.1.3 |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What procedures can be used to solve equations and inequalities? | Understand solving an inequality as a process of answering a question: which value(s) make the inequality true**?** | Student should be able to:-write an inequality to represent a real-world or mathematical problem-recognize that inequalities have infinitely many solutions-represent solutions of inequalities on a number line  | Lesson 2-6 Write InequalitiesSWBA to write an inequality to describe a real-world situation.enVision Math 2.0 Grade 6Pgs. 113-118  | Inequality | CC.2.2.6.B.2M06.B-E.2.1.46.EE.B.56.EE.B.8 |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What procedures can be used to solve equations and inequalities? | Understand solving an inequality as a process of answering a question: which value(s) make the inequality true? | Student should be able to:-write an inequality to represent a real-world or mathematical problem-recognize that inequalities have infinitely many solutions-represent solutions of inequalities on a number line  | Lesson 2-7 Solve InequalitiesSWBA to write and represent solutions on inequalities.enVision Math 2.0 Grade 6Pgs. 119-122 | Inequality | CC.2.2.6.B.2M06.B-E.2.1.46.EE.B.56.EE.B.8 |
|  | There are some mathematical relationships that are always true and these relationships are used as the rules of arithmetic and algebra and are useful for writing equivalent forms of expressions and solving equations and inequalities. | What procedures can be used to solve equations and inequalities? | Understand solving an equation or inequality as a process of answering a question: which value(s) make the equation or inequality true? | Student should be able to:-write an inequality to represent a real-world or mathematical problem-recognize that equations and inequalities have solutions-represent solutions of equations and inequalities on a number line  | Lesson 2-8 Make Sense and PersevereSWBA to make sense of problems and keep working if one gets stuck.enVision Math 2.0 Grade 6Pgs. 123-130 | EquationInequality | CC.2.2.6.B.2M06.B-E.2.1.46.EE.B.56.EE.B.7 |
| **Review Unit 5 Solving Equations and Inequalities** |
| **Test Common Assessment Unit 5 Solving Equations and Inequalities** |
| **Unit 6 Rational Numbers** |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **7 Days**  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are integers and rational numbers?How can you compare and order rational numbers? | Apply and extend previous understandings of numbers to the system of rational numbers. | Student should be able to use the number line model to demonstrate integers and their applications. | Lesson 3-1 Understand IntegersSWBA to use positive and negative integersenVision Math 2.0 Grade 6Pgs. 143-148 | IntegerOppositesPositive IntegersNegative IntegersAbsolute Value | CC.2.1.6.E.4M06.A-N.3.1.1M06.A-N.3.1.2M06.A-N.3.1.3M06.A-N.3.2.1M06.A-N.3.2.2M06.A-N.3.2.3 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are integers and rational numbers?How can you compare and order rational numbers? | Apply and extend previous understandings of numbers to the system of rational numbers. | Student should be able to use the number line model to demonstrate rational numbers and their applications. | Lesson 3-2 Rational Numbers on a Number LineSWBA to find and position rational numbers on a number line.enVision Math 2.0 Grade 6Pgs. 149-154 | Natural numbersWhole numbersIntegersRational numbers | CC.2.1.6.E.4M06.A-N.3.1.1M06.A-N.3.1.2M06.A-N.3.1.3M06.A-N.3.2.1M06.A-N.3.2.2M06.A-N.3.2.3 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are integers and rational numbers?How can you compare and order rational numbers? | Apply and extend previous understandings of numbers to the system of rational numbers. | Student should be able to distinguish between and order rational and irrational numbers. | Lesson 3-3 Compare and Order Rational Numbers SWBA to compare and order rational numbers.enVision Math 2.0 Grade 6Pgs. 155-160 | Rational Number | CC.2.1.6.E.4M06.A-N.3.1.1M06.A-N.3.1.2M06.A-N.3.1.3M06.A-N.3.2.1M06.A-N.3.2.2M06.A-N.3.2.3 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are integers and rational numbers?How can you compare and order rational numbers? | Apply and extend previous understandings of numbers to the system of rational numbers. | Student should be able to distinguish between and order rational and irrational numbers. | Lesson 3-4 Absolute Values SWBA to interpret absolute values in mathematics and real-world situations.enVision Math 2.0 Grade 6Pgs. 161-166 | Absolute Value | 6.NS.C.7c6.NS.C.7d |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are integers and rational numbers?How can you compare and order rational numbers? | Apply and extend previous understandings of numbers to the system of rational numbers. | Student should be able to distinguish between and order rational and irrational numbers. | Lesson 3-5 ReasoningSWBA to make sense of quantities and relationships in problem situations.enVision Math 2.0 Grade 6Pgs. 167-172 |  | 6.NS.C.7c6.NS.C.7d |
| **Review Unit 6 Rational Numbers** |
| **Test Common Assessment Unit 6 Rational Numbers** |
| **Unit 7 Coordinate Geometry** |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **7 Days**  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What strategies will I need to solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane? | Apply and extend previous understandings of numbers to the system of rational numbers. | Student should be able to locate and describe relationships using the coordinate plane. | Lesson 4-1 Integers on the Coordinate PlaneSWBA to graph points on a coordinate plane.enVision Math 2.0 Grade 6Pgs. 185-190 | Coordinate Plane*x*-axis*y*-axisAxesQuadrantsOriginOrdered Pair | CC.2.1.6.E.4M06.A-N.3.1.1M06.A-N.3.1.2M06.A-N.3.1.3 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What strategies will I need to solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane? | Apply and extend previous understandings of numbers to the system of rational numbers. | Student should be able to locate and describe relationships using the coordinate plane. | Lesson 4-2 Rational Numbers on the Coordinate PlaneSWBA to graph rational numbers on a coordinate plane.enVision Math 2.0 Grade 6Pgs. 191-196 | Coordinate Plane*x*-axis*y*-axisAxesQuadrantsOriginOrdered Pair | CC.2.1.6.E.4M06.A-N.3.1.1M06.A-N.3.1.2M06.A-N.3.1.3 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What strategies will I need to solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane? | Apply and extend previous understandings of numbers to the system of rational numbers. | Student should be able to locate and describe relationships using the coordinate plane. | Lesson 4-3 Distance on a coordinate Plane.SWBA to use absolute value to fond distance on the coordinate plane.enVision Math 2.0 Grade 6Pgs. 197-202 | Distance Absolute Value | CC.2.1.6.E.4M06.A-N.3.1.1M06.A-N.3.1.2M06.A-N.3.1.3 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What strategies will I need to solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane? | Calculate the perimeter of a polygon on a plane given the coordinates of the vertices. | Student should be able to locate and describe relationships using the coordinate plane. | Lesson 4-4 Polygons on a Coordinate PlaneSWBA to find the side lengths on a coordinate plane.enVision Math 2.0 Grade 6Pgs. 203-208 | PolygonsSides | CC.2.1.6.E.4M06.A-N.3.1.1M06.A-N.3.1.2M06.A-N.3.1.3 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What strategies will I need to solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane? | Calculate the perimeter of a polygon on a plane given the coordinates of the vertices. | Student should be able to locate and describe relationships using the coordinate plane. | Lesson 4-5 Constructing ArgumentsSWBA to construct arguments using what was learned about finding distances on a coordinate plane.enVision Math 2.0 Grade 6Pgs. 209-214 |  | CC.2.1.6.E.4M06.A-N.3.1.1M06.A-N.3.1.2M06.A-N.3.1.3**6.G.A.3** |
| **Review Unit 7 Coordinate Geometry** |
| **Test Common Assessment Unit 7 Coordinate Geometry** |
| **Unit 8 Patterns and Equations** |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **8 Days**  | Patterns exhibit relationships that can be extended, described, and generalized | How can equations be written?What patterns can be found in tables of values?How are equations that can relate real-world quantities graphed? | Represent and/or analyze mathematical situations & structures using algebraic symbols, words, tables, graphs & common formulas | Student should be able to analyze the relationship between the dependent & independent variables using graphs and tables &/or relate these to an equation  | Lesson 5-1 Dependent and Independent variables,SWBA to identify dependent and independent variables.enVision Math 2.0 Grade 6Pgs. 227-232 | Independent variableDependent Variables | CC.2.2.6.B.3M06.B-E.3.1.2 |
|  | Patterns exhibit relationships that can be extended, described, and generalized | How can equations be written?What patterns can be found in tables of values?How are equations that can relate real-world quantities graphed? | Represent and/or analyze mathematical situations & structures using algebraic symbols, words, tables, graphs & common formulas | Student should be able to analyze the relationship between the dependent & independent variables using graphs and tables &/or relate these to an equation  | Lesson 5-2 Patterns and EquationsSWBA to use patterns to write equations with variables.enVision Math 2.0 Grade 6Pgs. 233-238 | Table of values | CC.2.2.6.B.3M06.B-E.3.1.2 |
|  | Patterns exhibit relationships that can be extended, described, and generalized | How can equations be written?What patterns can be found in tables of values?How are equations that can relate real-world quantities graphed? | Represent and/or analyze mathematical situations & structures using algebraic symbols, words, tables, graphs & common formulas | Student should be able to analyze the relationship between the dependent & independent variables using graphs and tables &/or relate these to an equation  | Lesson 5-3 More Patterns and EquationsSWBA to use tables, graphs and equations to show relationships between independent and dependent variables.enVision Math 2.0 Grade 6Pgs. 239-244 | Table of values | CC.2.2.6.B.3M06.B-E.3.1.2 |
|  | Patterns exhibit relationships that can be extended, described, and generalized | How can equations be written?What patterns can be found in tables of values?How are equations that can relate real-world quantities graphed? | Represent and/or analyze mathematical situations & structures using algebraic symbols, words, tables, graphs & common formulas | Student should be able to analyze the relationship between the dependent & independent variables using graphs and tables &/or relate these to an equation  | Lesson 5-4 Graph EquationsSWBA to graph algebraic expressions.enVision Math 2.0 Grade 6Pgs. 245-250 | Linear equation | CC.2.2.6.B.3M06.B-E.3.1.2 |
|  | Patterns exhibit relationships that can be extended, described, and generalized | How can equations be written?What patterns can be found in tables of values?How are equations that can relate real-world quantities graphed? | Represent and/or analyze mathematical situations & structures using algebraic symbols, words, tables, graphs & common formulas | Student should be able to analyze the relationship between the dependent & independent variables using graphs and tables &/or relate these to an equation  | Lesson 5-5 Continue to Graph EquationsSWBA to graph algebraic equations with more than one operation.enVision Math 2.0 Grade 6Pgs. 251-256 | Linear equation | CC.2.2.6.B.3M06.B-E.3.1.2 |
|  | Patterns exhibit relationships that can be extended, described, and generalized | How can equations be written?What patterns can be found in tables of values?How are equations that can relate real-world quantities graphed? | Represent and/or analyze mathematical situations & structures using algebraic symbols, words, tables, graphs & common formulas | Student should be able to analyze the relationship between the dependent & independent variables using graphs and tables &/or relate these to an equation  | Lesson 5-6 Model with MathSWBA to use math models to represent and solve problems..enVision Math 2.0 Grade 6Pgs. 257-262 | Math Models  | CC.2.2.6.B.3M06.B-E.3.1.26.EE,B.5 |
|  **Review Unit 8 Patterns and Equations** |
|  **Test Common Assessment Unit 8 Patterns and Equations** |
| **Unit 9 Ratio Concepts and Reasoning** |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **8 Days**  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What strategies will I need to solve real-world and mathematical problems using ratios and proportions? | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations involving distance, rate, time. | Lesson 9-1 Understanding RatiosSWBA to use a ratio to describe the relationship between two quantitiesenVision Math 2.0 Grade 6Pgs. 427-432 | RatioTerms  | CC.2.1.6.D.1M06.A-R.1.1.1 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What strategies will I need to solve real-world and mathematical problems using ratios and proportions? | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations involving distance, rate, time. | Lesson 9-2 Model RatiosSWBA to draw a diagram to help solve ratio problemsenVision Math 2.0 Grade 6Pgs. 433-438 | Ratio  | CC.2.1.6.D.1M06.A-R.1.1.3 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What strategies will I need to solve real-world and mathematical problems using ratios and proportions? | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations involving distance, rate, time. | Lesson 9-3 Equivalent RatiosSWBA to find equal ratiosenVision Math 2.0 Grade 6Pgs. 439-444 | Ratio  | CC.2.1.6.D.1M06.A-R.1.1.3 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What strategies will I need to solve real-world and mathematical problems using ratios and proportions? | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations involving distance, rate, time. | Lesson 9-4 Compare RatiosSWBA to compare ratios to solve problemsenVision Math 2.0 Grade 6Pgs. 445-446 | Ratio  | CC.2.1.6.D.1M06.A-R.1.1.3 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What strategies will I need to solve real-world and mathematical problems using ratios and proportions? | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations involving distance, rate, time. | Lesson 9-5 Ratio and GraphsSWBA to solve problems by using tables & graphs to show equal ratios enVision Math 2.0 Grade 6Pgs. 451-456 | Ratio  | CC.2.1.6.D.1M06.A-R.1.1.3 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What strategies will I need to solve real-world and mathematical problems using ratios and proportions? | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations involving distance, rate, time. | Lesson 9-6 Make Sense and Persevere enVision Math 2.0 Grade 6Pgs. 457-462 | Ratio  | CC.2.1.6.D.1M06.A-R.1.1.2M06.A-R.1.1.3 |
| **Review Unit 9 Ratio Concepts and Reasoning** |
| **Test Common Assessment Unit 9 Ratio Concepts and Reasoning** |
| **Unit 10 Ratio Concepts: Rates** |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **7 Days**  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are ratios and rates and how are they used in solving problems?How can customary and metric measurements be converted to other units? | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations involving distance, rate, time. | Lesson 10-1 Understand RatesSWBA to solve problems involving ratesenVision Math 2.0 Grade 6Pgs. 475-480 | Rate | CC.2.1.6.D.1M06.A-R.1.1.2 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are ratios and rates and how are they used in solving problems?How can customary and metric measurements be converted to other units? | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations involving distance, rate, time. | Lesson 10-2 Understand Unit RatesSWBA to solve problems involving unit ratesenVision Math 2.0 Grade 6Pgs. 481-486 | RateUnit Rate | CC.2.1.6.D.1M06.A-R.1.1.2M06.A-R.1.1.4 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are ratios and rates and how are they used in solving problems?How can customary and metric measurements be converted to other units? | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations involving distance, rate, time. | Lesson 10-3 Compare RatesSWBA to compare rates to solve problemsenVision Math 2.0 Grade 6Pgs. 487-492 | RateUnit Rate | CC.2.1.6.D.1M06.A-R.1.1.2M06.A-R.1.1.4 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are ratios and rates and how are they used in solving problems?How can customary and metric measurements be converted to other units? | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations involving distance, rate, time. | Lesson 10-4 Apply unit Rates: Unit PriceSWBA to find, compare and use unit pricesenVision Math 2.0 Grade 6Pgs. 493-498 | RateUnit Rate | CC.2.1.6.D.1M06.A-R.1.1.2M06.A-R.1.1.4 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are ratios and rates and how are they used in solving problems?How can customary and metric measurements be converted to other units? | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations involving distance, rate, time. | Lesson 10-5 Apply Unit Rates: Constant SpeedSWBA to use unit rates to solve constant speed problems enVision Math 2.0 Grade 6Pgs. 499-504 | RateUnit RateConstant Speed  | CC.2.1.6.D.1M06.A-R.1.1.2M06.A-R.1.1.4 |
| **Review Unit 10 Ratio Concepts: Rate** |
| **Test Common Assessment Unit 10 Ratio Concepts: Rate** |
| **Unit 11: Ratio Concepts: Percent** |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **9 Days**  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What is the meaning of percent?How can percent be estimated and found?  | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations  | Lesson 11-1 Understand PercentSWBA to represent & find the percent of a wholeenVision Math 2.0 Grade 6Pgs. 541-546 | Percent  | CC.2.1.6.D.1M06.A-R.1.1.5 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What is the meaning of percent?How can percent be estimated and found?  | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations  | Lesson 11-2 Fractions, Decimals & Percents SWBA to write equivalent values as fractions, decimals or percentsenVision Math 2.0 Grade 6Pgs. 547-552  | Percent  | CC.2.1.6.D.1M06.A-R.1.1.5 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What is the meaning of percent?How can percent be estimated and found?  | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations  | Lesson 11-3 Percents greater than 100 or less than 1 SWBA to write percents that are greater than 100 or less than 1 enVision Math 2.0 Grade 6Pgs. 553-558  | Percent  | CC.2.1.6.D.1M06.A-R.1.1.5 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What is the meaning of percent?How can percent be estimated and found?  | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations  | Lesson 11-4 Estimate percentSWBA to estimate the percent of a number using equivalent fractions & compatible numbers enVision Math 2.0 Grade 6Pgs. 559-564  |   | CC.2.1.6.D.1M06.A-R.1.1.5 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What is the meaning of percent?How can percent be estimated and found?  | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations  | Lesson 11-5 Find the percent of a numberSWBA solve problems involving percents enVision Math 2.0 Grade 6Pgs. 565-570  |   | CC.2.1.6.D.1M06.A-R.1.1.5 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What is the meaning of percent?How can percent be estimated and found?  | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations  | Lesson 11-6 Find the wholeSWBA find the whole amount when given a part & the percent enVision Math 2.0 Grade 6Pgs. 571-576  |   | CC.2.1.6.D.1M06.A-R.1.1.5 |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What is the meaning of percent?How can percent be estimated and found?  | Understand ratio concepts and use ratio reasoning to solve problems. | Student should be able to apply ratio and proportion to mathematical problem situations  | Lesson 11-7 Repeated Reasoning SWBA use what they know about percents to solve real-world problems enVision Math 2.0 Grade 6Pgs.577-582  |   | CC.2.1.6.D.1M06.A-R.1.1.5 |
| **Review Unit 11 Ratio Concepts: Percent**  |
|  **Test Common Assessment Unit 11 Ratio Concepts: Percent**  |
| **Unit 12: Divide Fractions by Fractions**  |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **9 Days**  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are standard procedures for estimating & finding quotients of fractions & mixed numbers?  | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with fractional numbers using the four arithmetic operations, using the standard algorithm for each operation. | Lesson 12-1 Understand Division of Fractions SWBA to use models to divide with fractions enVision Math 2.0 Grade 6Pgs. 593-598  |  | CC.2.1.6.E.1M06.A-N.1.1.1  |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are standard procedures for estimating & finding quotients of fractions & mixed numbers?  | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with fractional numbers using the four arithmetic operations, using the standard algorithm for each operation. | Lesson 12-2 Divide Whole Numbers by Fractions SWBA to divide whole numbers by fractions enVision Math 2.0 Grade 6Pgs. 599-604  | Reciprocal  | CC.2.1.6.E.1M06.A-N.1.1.1  |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are standard procedures for estimating & finding quotients of fractions & mixed numbers?  | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with fractional numbers using the four arithmetic operations, using the standard algorithm for each operation. | Lesson 12-3 Use Models to Divide Fractions SWBA to make & use a model to divide a fraction by a fraction enVision Math 2.0 Grade 6Pgs. 605-610  | Reciprocal  | CC.2.1.6.E.1M06.A-N.1.1.1  |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are standard procedures for estimating & finding quotients of fractions & mixed numbers?  | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with fractional numbers using the four arithmetic operations, using the standard algorithm for each operation. | Lesson 12-4 Divide Fractions SWBA to divide a fraction by another fraction enVision Math 2.0 Grade 6Pgs. 611- 616  | Reciprocal  | CC.2.1.6.E.1M06.A-N.1.1.1  |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are standard procedures for estimating & finding quotients of fractions & mixed numbers?  | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with fractional numbers using the four arithmetic operations, using the standard algorithm for each operation. | Lesson 12-5 Estimate Mixed-Number Quotients SWBA to use rounding & compatible numbers to estimate quotients with mixed numbers enVision Math 2.0 Grade 6Pgs. 617-622 |  | CC.2.1.6.E.1M06.A-N.1.1.1  |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are standard procedures for estimating & finding quotients of fractions & mixed numbers?  | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with fractional numbers using the four arithmetic operations, using the standard algorithm for each operation. | Lesson 12-6 Divide Mixed Numbers SWBA to find the quotient of mixed numbers enVision Math 2.0 Grade 6Pgs. 623-628 |  | CC.2.1.6.E.1M06.A-N.1.1.1  |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are standard procedures for estimating & finding quotients of fractions & mixed numbers?  | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with fractional numbers using the four arithmetic operations, using the standard algorithm for each operation. | Lesson 12-7 Evaluate Expressions with Fractions SWBA to use fractions to evaluate algebraic expressions enVision Math 2.0 Grade 6Pgs. 629-634  |  | CC.2.1.6.E.1M06.A-N.1.1.1  |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are standard procedures for estimating & finding quotients of fractions & mixed numbers?  | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with fractional numbers using the four arithmetic operations, using the standard algorithm for each operation. | Lesson 12-8 Solve Equations with Fractions SWBA to use fractions to solve equations enVision Math 2.0 Grade 6Pgs. 635-640 |  | CC.2.1.6.E.1M06.A-N.1.1.1  |
|  | Numbers, measures, expressions, equations, and inequalities can represent mathematical situations and structures in many equivalent forms. | What are standard procedures for estimating & finding quotients of fractions & mixed numbers?  | Compute accurately & fluently and make reasonable estimates. | Student should be able to compute with fractional numbers using the four arithmetic operations, using the standard algorithm for each operation. | Lesson 12-9 PrecisionSWBA to be precise when solving problems enVision Math 2.0 Grade 6Pgs. 641-646  |  | CC.2.1.6.E.1M06.A-N.1.1.1  |
| **Review Unit 12 Divide Fractions by Fractions**  |
|  **Test Common Assessment Unit 12 Divide Fractions by Fractions**  |
| **Unit 13: Solve Area Problems**  |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **7 Days**  | Two- and three-dimensional objects can be described, classified, and analyzed by their attributes, and their location can be described quantitatively. | How can the area of certain shapes be found?  | Extend previous understandings of the characteristics of 2-d and 3-d shapes, including the measures of area and volumes, by exploring, solving, and interpreting real world problems. | Student should be able to apply appropriate techniques, tools & formulas to solve real-world & mathematical problems involving area | Lesson 13-1 Areas of Parallelograms & Rhombuses SWBA to use what they know about areas of rectangles to find the areas of parallelograms & rhombuses enVision Math 2.0 Grade 6Pgs. 659-664 | AreaBaseLength Height WidthPerpendicular  | CC.2.3.6.A.1 M06.C-G.1.1.1  |
|  | Two- and three-dimensional objects can be described, classified, and analyzed by their attributes, and their location can be described quantitatively. | How can the area of certain shapes be found?  | Extend previous understandings of the characteristics of 2-d and 3-d shapes, including the measures of area and volumes, by exploring, solving, and interpreting real world problems. | Student should be able to apply appropriate techniques, tools & formulas to solve real-world & mathematical problems involving area | Lesson 13-2 Areas of Triangles SWBA to find the areas of triangles enVision Math 2.0 Grade 6Pgs. 665-670 | DecomposeDiagonal  | CC.2.3.6.A.1 M06.C-G.1.1.1  |
|  | Two- and three-dimensional objects can be described, classified, and analyzed by their attributes, and their location can be described quantitatively. | How can the area of certain shapes be found?  | Extend previous understandings of the characteristics of 2-d and 3-d shapes, including the measures of area and volumes, by exploring, solving, and interpreting real world problems. | Student should be able to apply appropriate techniques, tools & formulas to solve real-world & mathematical problems involving area | Lesson 13-3 Areas of Special Quadrilaterals SWBA to find the areas of special quadrilaterals enVision Math 2.0 Grade 6Pgs. 671-676 | Decompose  | CC.2.3.6.A.1 M06.C-G.1.1.2  |
|  | Two- and three-dimensional objects can be described, classified, and analyzed by their attributes, and their location can be described quantitatively. | How can the area of certain shapes be found?  | Extend previous understandings of the characteristics of 2-d and 3-d shapes, including the measures of area and volumes, by exploring, solving, and interpreting real world problems. | Student should be able to apply appropriate techniques, tools & formulas to solve real-world & mathematical problems involving area | Lesson 13-4 Areas of PolygonsSWBA to find the areas of polygons enVision Math 2.0 Grade 6Pgs. 677-682 |   | CC.2.3.6.A.1 M06.C-G.1.1.2  |
|  | Two- and three-dimensional objects can be described, classified, and analyzed by their attributes, and their location can be described quantitatively. | How can the area of certain shapes be found?  | Extend previous understandings of the characteristics of 2-d and 3-d shapes, including the measures of area and volumes, by exploring, solving, and interpreting real world problems. | Student should be able to apply appropriate techniques, tools & formulas to solve real-world & mathematical problems involving area | Lesson 13-5 Polygons on the Coordinate Plane SWBA to find the areas of polygons on a coordinate plane enVision Math 2.0 Grade 6Pgs. 683-688 |   | CC.2.3.6.A.1 M06.C-G.1.1.1 M06.C-G.1.1.2M06.C-G.1.1.3 |
|  | Two- and three-dimensional objects can be described, classified, and analyzed by their attributes, and their location can be described quantitatively. | How can the area of certain shapes be found?  | Extend previous understandings of the characteristics of 2-d and 3-d shapes, including the measures of area and volumes, by exploring, solving, and interpreting real world problems. | Student should be able to apply appropriate techniques, tools & formulas to solve real-world & mathematical problems involving area | Lesson 13-6 Look for & Use Structure SWBA to look for & use structure of polygons to solve problems enVision Math 2.0 Grade 6Pgs. 689-694 |   | CC.2.3.6.A.1 M06.C-G.1.1.1 M06.C-G.1.1.2M06.C-G.1.1.3 |
| **Review Unit 13 Solve Area Problems**  |
|  **Test Common Assessment Unit 13 Solve Area Problems**  |
| **Unit 14: Solve Surface Area and Volume Problems**  |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **7 Days**  | Some attributes of objects are measureable, e.g., length, mass, capacity, and can be quantified. | What is the meaning of surface area & how can surface area be found? What is the meaning of volume & hoe can volume be found?  | Represent 3-D figures using nets made up of rectangles & triangles, & use the nets to find the surface area of these figures | Student should be able to apply appropriate techniques, tools & formulas to solve real-world & mathematical problems involving area, surface area & volume | Lesson 14-1 Solid Figures & NetsSWBA to identify nets of solid figures enVision Math 2.0 Grade 6Pgs. 707-712  | PolyhedronFaces EdgeVertexNet  | CC.2.3.6.A.1 M06.C-G.1.1.5  |
|  | Some attributes of objects are measureable, e.g., length, mass, capacity, and can be quantified. | What is the meaning of surface area & how can surface area be found? What is the meaning of volume & hoe can volume be found?  | Represent 3-D figures using nets made up of rectangles & triangles, & use the nets to find the surface area of these figures | Student should be able to apply appropriate techniques, tools & formulas to solve real-world & mathematical problems involving area, surface area & volume | Lesson 14-2 Surface Area of PrismsSWBA to find the surface area of prisms enVision Math 2.0 Grade 6Pgs. 713-718  |   | CC.2.3.6.A.1 M06.C-G.1.1.5 M06.C-G.1.1.6 |
|  | Some attributes of objects are measureable, e.g., length, mass, capacity, and can be quantified. | What is the meaning of surface area & how can surface area be found? What is the meaning of volume & hoe can volume be found?  | Represent 3-D figures using nets made up of rectangles & triangles, & use the nets to find the surface area of these figures | Student should be able to apply appropriate techniques, tools & formulas to solve real-world & mathematical problems involving area, surface area & volume | Lesson 14-3 Surface Area of PyramidsSWBA to draw a net of a pyramid & find its surface area enVision Math 2.0 Grade 6Pgs. 719-724  |   | CC.2.3.6.A.1 M06.C-G.1.1.5 M06.C-G.1.1.6 |
|  | Some attributes of objects are measureable, e.g., length, mass, capacity, and can be quantified. | What is the meaning of surface area & how can surface area be found? What is the meaning of volume & hoe can volume be found?  | Apply appropriate formulas to find volumes of right rectangular prisms & triangular prisms(with fractional edge lengths) | Student should be able to apply appropriate techniques, tools & formulas to solve real-world & mathematical problems involving area, surface area & volume | Lesson 14-4 Volume with Fractional Edge Lengths SWBA to find the volume of a rectangular prism with fractional edge lengths enVision Math 2.0 Grade 6Pgs. 725-730  |  Volume  | CC.2.3.6.A.1 M06.C-G.1.1.3  |
|  | Some attributes of objects are measureable, e.g., length, mass, capacity, and can be quantified. | What is the meaning of surface area & how can surface area be found? What is the meaning of volume & hoe can volume be found?  | Apply appropriate formulas to find volumes of right rectangular prisms & triangular prisms(with fractional edge lengths) | Student should be able to apply appropriate techniques, tools & formulas to solve real-world & mathematical problems involving area, surface area & volume | Lesson 14-5 Reasoning SWBA to use reasoning to solve problems enVision Math 2.0 Grade 6Pgs. 731-736  |  Volume  | CC.2.3.6.A.1 M06.C-G.1.1.3  |
| **Review Unit 14 Solve Surface Area and Volume Problems**  |
|  **Test Common Assessment Unit 14 Solve Surface Area and Volume Problems**  |
| **Unit 15: Measures of Center and Variability**  |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **6 Days**  | Demonstrate understanding of statistical variability by summarizing and describing distributions. | How can you describe a data distribution? How can data be described by a single number?  | Formulate questions that can be addressed with data and/or collect, organize, display, and analyze data. | Student should be able to explain effects of sampling procedures and missing or incorrect information on reliability. | Lesson 15-1 Statistical QuestionsSWBA to identify & write statistical questionsenVision Math 2.0 Grade 6Pgs. 749-754  | Statistical Question | CC.2.4.6.B.1M06.D-S.1.1 |
|  | Demonstrate understanding of statistical variability by summarizing and describing distributions. | How can you describe a data distribution? How can data be described by a single number?  | Formulate questions that can be addressed with data and/or collect, organize, display, and analyze data. | Student should be able to explain effects of sampling procedures and missing or incorrect information on reliability. | Lesson 15-2 MeanSWBA to find the mean of a data set & recognize its value as a measure of center enVision Math 2.0 Grade 6Pgs. 755-760  | Mean | CC.2.4.6.B.1M06.D-S.1.1.2 |
|  | Demonstrate understanding of statistical variability by summarizing and describing distributions. | How can you describe a data distribution? How can data be described by a single number?  | Formulate questions that can be addressed with data and/or collect, organize, display, and analyze data. | Student should be able to explain effects of sampling procedures and missing or incorrect information on reliability. | Lesson 15-3 Median, Mode and RangeSWBA to identify the median, mode & range of a data set enVision Math 2.0 Grade 6Pgs. 761-766  | MedianModeRange  | CC.2.4.6.B.1M06.D-S.1.1.2 |
|  | Demonstrate understanding of statistical variability by summarizing and describing distributions. | How can you describe a data distribution? How can data be described by a single number?  | Formulate questions that can be addressed with data and/or collect, organize, display, and analyze data. | Student should be able to explain effects of sampling procedures and missing or incorrect information on reliability. | Lesson 15-4 Make Sense and PersevereSWBA to make sense of problems & keep working if I get stuck enVision Math 2.0 Grade 6Pgs. 767-772  |   | CC.2.4.6.B.1M06.D-S.1.1.2 |
| **Review Unit 15 Measures of Center and Variability** |
|  **Test Common Assessment Unit 15 Measures of Center and Variability** |
| **Unit 16 Display and Summarize Data** |
| **Estimated Unit Time Frames** | **Big Ideas**  | **Essential Questions** |  **Concepts** **(Know)** | **Competencies** **(Do)** | **Lessons/ Suggested Resources** | **Vocabulary** | **Standards/ Eligible Content** |
| **8 Days**  | Demonstrate understanding of statistical variability by summarizing and describing distributions. | How can graphs be used to represent data & answer questions?  | Analyze change in various contexts.Formulate questions that can be addressed with data and/or collect, organize, display, and analyze data. | Student should be able to display and analyze data in line graphs, histograms, & box plots and determine which best represents the data provided. | Lesson 16-1 Frequency Tables & Histograms SWBA to make & analyze frequency tables & histograms enVision Math 2.0 Grade 6Pgs. 785-790 | Frequency TableHistogram  | CC.2.4.6.B.1M06.D-S.1.1.1M06.D-S.1.1.3 |
|  | Demonstrate understanding of statistical variability by summarizing and describing distributions. | How can graphs be used to represent data & answer questions?  | Analyze change in various contexts.Formulate questions that can be addressed with data and/or collect, organize, display, and analyze data. | Student should be able to display and analyze data in line graphs, histograms, & box plots and determine which best represents the data provided. | Lesson 16-2 Box Plots SWBA to make & analyze box plots enVision Math 2.0 Grade 6Pgs. 791-796 | Box PlotQuartilesFirst QuartileThird Quartile Minimum Maximum  | CC.2.4.6.B.1M06.D-S.1.1.1M06.D-S.1.1.2M06.D-S.1.1.3 |
|  | Demonstrate understanding of statistical variability by summarizing and describing distributions. | How can graphs be used to represent data & answer questions?  | Analyze change in various contexts.Formulate questions that can be addressed with data and/or collect, organize, display, and analyze data. | Student should be able to display and analyze data in line graphs, histograms, & box plots and determine which best represents the data provided. | Lesson 16-3 Measures of VariabilitySWBA to use measures of variability to describe a data set enVision Math 2.0 Grade 6Pgs. 797-802 | Absolute DeviationMean Absolute Deviation (MAD)Interquartile Range (IQR)  | CC.2.4.6.B.1M06.D-S.1.1.3 |
|  | Demonstrate understanding of statistical variability by summarizing and describing distributions. | How can graphs be used to represent data & answer questions?  | Analyze change in various contexts.Formulate questions that can be addressed with data and/or collect, organize, display, and analyze data. | Student should be able to display and analyze data in line graphs, histograms, & box plots and determine which best represents the data provided. | Lesson 16-4 Appropriate Use of Statistical Measures SWBA to select & use appropriate statistical measures enVision Math 2.0 Grade 6Pgs. 803-808 | ClustersGapsOutliers  | CC.2.4.6.B.1M06.D-S.1.1.2M06.D-S.1.1.3M06.D-S.1.1.14 |
|  | Demonstrate understanding of statistical variability by summarizing and describing distributions. | How can graphs be used to represent data & answer questions?  | Analyze change in various contexts.Formulate questions that can be addressed with data and/or collect, organize, display, and analyze data. | Student should be able to display and analyze data in line graphs, histograms, & box plots and determine which best represents the data provided. | Lesson 16-5 Summarize Data DistributionsSWBA to summarize numerical data sets enVision Math 2.0 Grade 6Pgs. 809-814 | Data Distribution  | CC.2.4.6.B.1M06.D-S.1.1.4 |
|  | Demonstrate understanding of statistical variability by summarizing and describing distributions. | How can graphs be used to represent data & answer questions?  | Analyze change in various contexts.Formulate questions that can be addressed with data and/or collect, organize, display, and analyze data. | Student should be able to display and analyze data in line graphs, histograms, & box plots and determine which best represents the data provided. | Lesson 16-6 Critique Reasoning SWBA to critique the reasoning of others using what they know about data distributions enVision Math 2.0 Grade 6Pgs. 815-820 |  | CC.2.4.6.B.1M06.D-S.1.1.2M06.D-S.1.1.3M06.D-S.1.1.4 |
| **Review Unit 16 Display and Summarize Data**  |
|  **Test Common Assessment Unit 16 Display and Summarize Data**  |
|  |  |  |  |  |  |  |  |