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| **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 Numbers  SWBA to find the quotients of two whole numbers and solve division equations.  enVision Math 2.0  Grade 6  Pgs. 279-284 | Quotients  Whole Numbers  Dividend  Divisor | CC.2.1.6.E.2  M06.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 Numbers  SWBA to fluently divide greater whole numbers,  envVsion Math 2.0  Grade 6  Pgs. 285-290 | Quotients  Whole Numbers  Dividend  Divisor | CC.2.1.6.E.2  M06.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 Differences  SWBA to estimate the sums and differences of decimals,  enVision Math 2.0  Grade 6  Pgs. 319-324 | Estimate  Sum  Difference | CC.2.1.6.E.2  M06.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 Decimals  SWBA to find the sum and difference of problems involving decimals.  enVision Math 2.0  Grade 6  Pgs. 325-330 | Sum  Difference | CC.2.1.6.E.2  M06.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 Products  SWBA to estimate the products of decimals,  enVision Math 2.0  Grade 6  Pgs. 331-336 | Estimate  Product | CC.2.1.6.E.2  M06.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 Decimals  SWBA to multiply decimals.  enVision Math 2.0  Grade 6  Pgs. 337-342 | Product | CC.2.1.6.E.2  M06.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 Number  SWBA to divide decimals by a Whole number.  enVision Math 2.0  Grade 6  Pgs. 343-348 | Quotient | CC.2.1.6.E.2  M06.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 6  Pgs. 349-354 | Quotient | CC.2.1.6.E.2  M06.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 6  Pgs. 355-360 | Quotient | CC.2.1.6.E.2  M06.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 Numbers  SWBA to identify prime and composite number and write the Prime factorization of a number.  enVision Math 2.0  Grade 6  Pgs. 391-396 | Prime Number  Composite Number  Prime factorization. | CC.2.1.6.E.3  M06.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 Factor  SWBA to find the greatest common factor of two numbers  enVision Math 2.0  Grade 6  Pgs. 397-402 | Greatest Common Factor (GCF) | CC.2.1.6.E.3  M06.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 Multiple  SWBA to find the least common multiple of two numbers  enVision Math 2.0  Grade 6  Pgs. 403-408 | Common Multiples  Least Common Multiple (LCM) | CC.2.1.6.E.3  M06.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 Reasoning  SWBA to critique the reasoning of others using what they know about factors & multiples  enVision Math 2.0  Grade 6  Pgs. 409-414 | Counterexample | CC.2.1.6.E.3  M06.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 Exponents  SWBA to write and evaluate numbers using exponents.  enVision Math 2.0  Grade 6  Pgs. 7-12 | Exponent  Base  Power | CC.2.2.6.B.1  M06.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 Expressions  SWBA to use the order of operations to evaluate numerical expressions with decimals and fractions.  enVision Math 2.0  Grade 6  Pgs. 13-18 | Order of Operations | CC.2.2.6.B.1  M06.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 write  expressions and equations that correspond to given situations, evaluate expressions, and use expressions and formulas to solve problems. | Lesson 1-3 Use Variables to Write Expressions  SWBA to use variables to write algebraic expressions.  enVision Math 2.0  Grade 6  Pgs. 19-24 | Expression  Variables | **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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 write  expressions 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 6  Pgs. 25-30 | Term | CC.2.2.6.B.1  M06.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 6  Pgs. 31-36 | Evaluate  Substitution | CC.2.2.6.B.1  M06.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 expressions  SWBA to substitute given numbers in a formula to find a missing value.  enVision Math 2.0  Grade 6  Pgs. 291-296 | Quotients  Substitute  Evaluate  Algebraic expression | 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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 Decimals  SWBA to evaluate an algebraic expression with decimals  enVision Math 2.0  Grade 6  Pgs. 361-366 | Evaluate | CC.2.2.6.B.1  M06.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 Expressions  SWBA to use the properties of operations to write equivalent expressions.  enVision Math 2.0  Grade 6  Pgs. 37-42 | Equivalent Expressions  Commutative Property  Associative Property  Distributive Property | CC.2.2.6.B.1  M06.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 6  Pgs. 43-48 | Simplify  Terms  Like 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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 Expressions  SWBA to identify equivalent algebraic expressions.  enVision Math 2.0  Grade 6  Pgs. 49-54 | Commutative Property  Associative Property  Distributive Property | CC.2.2.6.B.1  M06.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 Formulas  SWBA touse formulas to solve problems  enVision Math 2.0  Grade 6  Pgs. 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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 Structure  SWBA tolook for and use structure to analyze algebraic expressions.  enVision Math 2.0  Grade 6  Pgs. 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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 Solutions  SWBA to find a value for a variable that makes an equation true.  enVision Math 2.0  Grade 6  Pgs. 83-88 |  | 6.EE.B.5  CC.2.2.6.B.2  M06.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 Equalities  SWBA to use the properties of equalities to write equivalent equations,  enVision Math 2.0  Grade 6  Pgs. 89-94 | Addition Property of Equality  Subtraction Property of Equality  Multiplication Property of Equality  Division Property of Equality | CC.2.2.6.B.2  M06.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 6  Pgs. 93-100 | Equation | CC.2.2.6.B.2  M06.B-E.2.1  6.EE.B.6  6.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 Equations  SWBA to solve a multiplication and division equations.  enVision Math 2.0  Grade 6  Pgs. 101-106 | Equation | CC.2.2.6.B.2  M06.B-E.2.1  6.EE.B.6  6.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 Equations  SWBA to write and solve equations that involve division.  enVision Math 2.0  Grade 6  Pgs. 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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 Decimals  SWBA to solve algebraic equations that include decimals.  enVision Math 2.0  Grade 6  Pgs. 367-372 | Equation | CC.2.2.6.B.2  M06.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 Fractions  SWBA to solve equations that include fractions.  enVision Math 2.0  Grade 6  Pgs. 107-112 | Equation | CC.2.2.6.B.2  M06.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 Inequalities  SWBA to write an inequality to describe a real-world situation.  enVision Math 2.0  Grade 6  Pgs. 113-118 | Inequality | CC.2.2.6.B.2  M06.B-E.2.1.4  6.EE.B.5  6.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 Inequalities  SWBA to write and represent solutions on inequalities.  enVision Math 2.0  Grade 6  Pgs. 119-122 | Inequality | CC.2.2.6.B.2  M06.B-E.2.1.4  6.EE.B.5  6.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl10$lnkBigIdea','')) | 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 Persevere  SWBA to make sense of problems and keep working if one gets stuck.  enVision Math 2.0  Grade 6  Pgs. 123-130 | Equation  Inequality | CC.2.2.6.B.2  M06.B-E.2.1.4  6.EE.B.5  6.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 Integers  SWBA to use positive and negative integers  enVision Math 2.0  Grade 6  Pgs. 143-148 | Integer  Opposites  Positive Integers  Negative Integers  Absolute Value | CC.2.1.6.E.4  M06.A-N.3.1.1  M06.A-N.3.1.2  M06.A-N.3.1.3  M06.A-N.3.2.1  M06.A-N.3.2.2  M06.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 Line  SWBA to find and position rational numbers on a number line.  enVision Math 2.0  Grade 6  Pgs. 149-154 | Natural numbers  Whole numbers  Integers  Rational numbers | CC.2.1.6.E.4  M06.A-N.3.1.1  M06.A-N.3.1.2  M06.A-N.3.1.3  M06.A-N.3.2.1  M06.A-N.3.2.2  M06.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 6  Pgs. 155-160 | Rational Number | CC.2.1.6.E.4  M06.A-N.3.1.1  M06.A-N.3.1.2  M06.A-N.3.1.3  M06.A-N.3.2.1  M06.A-N.3.2.2  M06.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 6  Pgs. 161-166 | Absolute Value | 6.NS.C.7c  6.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 Reasoning  SWBA to make sense of quantities and relationships in problem situations.  enVision Math 2.0  Grade 6  Pgs. 167-172 |  | 6.NS.C.7c  6.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 Plane  SWBA to graph points on a coordinate plane.  enVision Math 2.0  Grade 6  Pgs. 185-190 | Coordinate Plane  *x*-axis  *y*-axis  Axes  Quadrants  Origin  Ordered Pair | CC.2.1.6.E.4  M06.A-N.3.1.1  M06.A-N.3.1.2  M06.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 Plane  SWBA to graph rational numbers on a coordinate plane.  enVision Math 2.0  Grade 6  Pgs. 191-196 | Coordinate Plane  *x*-axis  *y*-axis  Axes  Quadrants  Origin  Ordered Pair | CC.2.1.6.E.4  M06.A-N.3.1.1  M06.A-N.3.1.2  M06.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 6  Pgs. 197-202 | Distance  Absolute Value | CC.2.1.6.E.4  M06.A-N.3.1.1  M06.A-N.3.1.2  M06.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 Plane  SWBA to find the side lengths on a coordinate plane.  enVision Math 2.0  Grade 6  Pgs. 203-208 | Polygons  Sides | CC.2.1.6.E.4  M06.A-N.3.1.1  M06.A-N.3.1.2  M06.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 Arguments  SWBA to construct arguments using what was learned about finding distances on a coordinate plane.  enVision Math 2.0  Grade 6  Pgs. 209-214 |  | CC.2.1.6.E.4  M06.A-N.3.1.1  M06.A-N.3.1.2  M06.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](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl07$lnkBigIdea','')) | 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 6  Pgs. 227-232 | Independent variable  Dependent Variables | CC.2.2.6.B.3  M06.B-E.3.1.2 |
|  | [Patterns exhibit relationships that can be extended, described, and generalized](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl07$lnkBigIdea','')) | 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 Equations  SWBA to use patterns to write equations with variables.  enVision Math 2.0  Grade 6  Pgs. 233-238 | Table of values | CC.2.2.6.B.3  M06.B-E.3.1.2 |
|  | [Patterns exhibit relationships that can be extended, described, and generalized](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl07$lnkBigIdea','')) | 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 Equations  SWBA to use tables, graphs and equations to show relationships between independent and dependent variables.  enVision Math 2.0  Grade 6  Pgs. 239-244 | Table of values | CC.2.2.6.B.3  M06.B-E.3.1.2 |
|  | [Patterns exhibit relationships that can be extended, described, and generalized](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl07$lnkBigIdea','')) | 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 Equations  SWBA to graph algebraic expressions.  enVision Math 2.0  Grade 6  Pgs. 245-250 | Linear equation | CC.2.2.6.B.3  M06.B-E.3.1.2 |
|  | [Patterns exhibit relationships that can be extended, described, and generalized](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl07$lnkBigIdea','')) | 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 Equations  SWBA to graph algebraic equations with more than one operation.  enVision Math 2.0  Grade 6  Pgs. 251-256 | Linear equation | CC.2.2.6.B.3  M06.B-E.3.1.2 |
|  | [Patterns exhibit relationships that can be extended, described, and generalized](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl07$lnkBigIdea','')) | 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 Math  SWBA to use math models to represent and solve problems..  enVision Math 2.0  Grade 6  Pgs. 257-262 | Math Models | CC.2.2.6.B.3  M06.B-E.3.1.2  6.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 Ratios  SWBA to use a ratio to describe the relationship between two quantities  enVision Math 2.0  Grade 6  Pgs. 427-432 | Ratio  Terms | CC.2.1.6.D.1  M06.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 Ratios  SWBA to draw a diagram to help solve ratio problems  enVision Math 2.0  Grade 6  Pgs. 433-438 | Ratio | CC.2.1.6.D.1  M06.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 Ratios  SWBA to find equal ratios  enVision Math 2.0  Grade 6  Pgs. 439-444 | Ratio | CC.2.1.6.D.1  M06.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 Ratios  SWBA to compare ratios to solve problems  enVision Math 2.0  Grade 6  Pgs. 445-446 | Ratio | CC.2.1.6.D.1  M06.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 Graphs  SWBA to solve problems by using tables & graphs to show equal ratios  enVision Math 2.0  Grade 6  Pgs. 451-456 | Ratio | CC.2.1.6.D.1  M06.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 6  Pgs. 457-462 | Ratio | CC.2.1.6.D.1  M06.A-R.1.1.2  M06.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 Rates  SWBA to solve problems involving rates  enVision Math 2.0  Grade 6  Pgs. 475-480 | Rate | CC.2.1.6.D.1  M06.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 Rates  SWBA to solve problems involving unit rates  enVision Math 2.0  Grade 6  Pgs. 481-486 | Rate  Unit Rate | CC.2.1.6.D.1  M06.A-R.1.1.2  M06.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 Rates  SWBA to compare rates to solve problems  enVision Math 2.0  Grade 6  Pgs. 487-492 | Rate  Unit Rate | CC.2.1.6.D.1  M06.A-R.1.1.2  M06.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 Price  SWBA to find, compare and use unit prices  enVision Math 2.0  Grade 6  Pgs. 493-498 | Rate  Unit Rate | CC.2.1.6.D.1  M06.A-R.1.1.2  M06.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 Speed  SWBA to use unit rates to solve constant speed problems  enVision Math 2.0  Grade 6  Pgs. 499-504 | Rate  Unit Rate  Constant Speed | CC.2.1.6.D.1  M06.A-R.1.1.2  M06.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 Percent  SWBA to represent & find the percent of a whole  enVision Math 2.0  Grade 6  Pgs. 541-546 | Percent | CC.2.1.6.D.1  M06.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 percents  enVision Math 2.0  Grade 6  Pgs. 547-552 | Percent | CC.2.1.6.D.1  M06.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 6  Pgs. 553-558 | Percent | CC.2.1.6.D.1  M06.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 percent  SWBA to estimate the percent of a number using equivalent fractions & compatible numbers  enVision Math 2.0  Grade 6  Pgs. 559-564 |  | CC.2.1.6.D.1  M06.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 number  SWBA solve problems involving percents  enVision Math 2.0  Grade 6  Pgs. 565-570 |  | CC.2.1.6.D.1  M06.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 whole  SWBA find the whole amount when given a part & the percent  enVision Math 2.0  Grade 6  Pgs. 571-576 |  | CC.2.1.6.D.1  M06.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 6  Pgs.577-582 |  | CC.2.1.6.D.1  M06.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 6  Pgs. 593-598 |  | CC.2.1.6.E.1  M06.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 6  Pgs. 599-604 | Reciprocal | CC.2.1.6.E.1  M06.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 6  Pgs. 605-610 | Reciprocal | CC.2.1.6.E.1  M06.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 6  Pgs. 611- 616 | Reciprocal | CC.2.1.6.E.1  M06.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 6  Pgs. 617-622 |  | CC.2.1.6.E.1  M06.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 6  Pgs. 623-628 |  | CC.2.1.6.E.1  M06.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 6  Pgs. 629-634 |  | CC.2.1.6.E.1  M06.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 6  Pgs. 635-640 |  | CC.2.1.6.E.1  M06.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 Precision  SWBA to be precise when solving problems  enVision Math 2.0  Grade 6  Pgs. 641-646 |  | CC.2.1.6.E.1  M06.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl12$lnkBigIdea','')) | 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 6  Pgs. 659-664 | Area  Base  Length  Height  Width  Perpendicular | 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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl12$lnkBigIdea','')) | 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 6  Pgs. 665-670 | Decompose  Diagonal | 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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl12$lnkBigIdea','')) | 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 6  Pgs. 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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl12$lnkBigIdea','')) | 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 Polygons  SWBA to find the areas of polygons  enVision Math 2.0  Grade 6  Pgs. 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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl12$lnkBigIdea','')) | 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 6  Pgs. 683-688 |  | CC.2.3.6.A.1  M06.C-G.1.1.1  M06.C-G.1.1.2  M06.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl12$lnkBigIdea','')) | 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 6  Pgs. 689-694 |  | CC.2.3.6.A.1  M06.C-G.1.1.1  M06.C-G.1.1.2  M06.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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl07$lnkBigIdea','')) | 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 & Nets  SWBA to identify nets of solid figures  enVision Math 2.0  Grade 6  Pgs. 707-712 | Polyhedron  Faces  Edge  Vertex  Net | 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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl07$lnkBigIdea','')) | 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 Prisms  SWBA to find the surface area of prisms  enVision Math 2.0  Grade 6  Pgs. 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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl07$lnkBigIdea','')) | 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 Pyramids  SWBA to draw a net of a pyramid & find its surface area  enVision Math 2.0  Grade 6  Pgs. 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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl07$lnkBigIdea','')) | 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 6  Pgs. 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.](javascript:__doPostBack('ctl00$_PageContent$rptBigIdeas$ctl07$lnkBigIdea','')) | 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 6  Pgs. 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 Questions  SWBA to identify & write statistical questions  enVision Math 2.0  Grade 6  Pgs. 749-754 | Statistical Question | CC.2.4.6.B.1  M06.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  Mean  SWBA to find the mean of a data set & recognize its value as a measure of center  enVision Math 2.0  Grade 6  Pgs. 755-760 | Mean | CC.2.4.6.B.1  M06.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 Range  SWBA to identify the median, mode & range of a data set  enVision Math 2.0  Grade 6  Pgs. 761-766 | Median  Mode  Range | CC.2.4.6.B.1  M06.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 Persevere  SWBA to make sense of problems & keep working if I get stuck  enVision Math 2.0  Grade 6  Pgs. 767-772 |  | CC.2.4.6.B.1  M06.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 6  Pgs. 785-790 | Frequency Table  Histogram | CC.2.4.6.B.1  M06.D-S.1.1.1  M06.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 6  Pgs. 791-796 | Box Plot  Quartiles  First Quartile  Third Quartile  Minimum Maximum | CC.2.4.6.B.1  M06.D-S.1.1.1  M06.D-S.1.1.2  M06.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 Variability  SWBA to use measures of variability to describe a data set  enVision Math 2.0  Grade 6  Pgs. 797-802 | Absolute Deviation  Mean Absolute Deviation (MAD)  Interquartile Range (IQR) | CC.2.4.6.B.1  M06.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 6  Pgs. 803-808 | Clusters  Gaps  Outliers | CC.2.4.6.B.1  M06.D-S.1.1.2  M06.D-S.1.1.3  M06.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 Distributions  SWBA to summarize numerical data sets  enVision Math 2.0  Grade 6  Pgs. 809-814 | Data Distribution | CC.2.4.6.B.1  M06.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 6  Pgs. 815-820 |  | CC.2.4.6.B.1  M06.D-S.1.1.2  M06.D-S.1.1.3  M06.D-S.1.1.4 |
| **Review Unit 16 Display and Summarize Data** | | | | | | | |
| **Test Common Assessment Unit 16 Display and Summarize Data** | | | | | | | |
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