

Learning Continuum - Test View

MAP: Math 2-5 Common Core 2010 V2

[Print](#)

Goal: Operations and Algebraic Thinking

Sub-goal: Represent and Solve Problems

191-200 Reinforce these skills & concepts	201-210 Develop these skills & concepts	211-220 Introduce these skills & concepts
Number Sentences/Equations/Equivalence		
<ul style="list-style-type: none"> • Determines unknown divisors in division equations with whole numbers and dividends within 100 • Determines unknown factors in multiplication equations with whole numbers and products within 100 • Represents division equations with whole numbers as part-unknown multiplication equations • Represents subtraction equations with whole numbers as part-unknown addition equations 	<ul style="list-style-type: none"> • Determines unknown divisors in division equations with whole numbers and dividends within 100 • Determines unknown factors in multiplication equations with whole numbers and products greater than 100 • Determines unknown factors in multiplication equations with whole numbers and products within 100 • Represents division equations with whole numbers as part-unknown multiplication equations • Represents subtraction equations with whole numbers as part-unknown addition equations 	<ul style="list-style-type: none"> • Determines unknown factors in multiplication equations with whole numbers and products greater than 100
Numerical Expressions		
<ul style="list-style-type: none"> • Evaluates numerical expressions involving addition and subtraction with whole numbers and parentheses • Evaluates numerical expressions 	<ul style="list-style-type: none"> • Evaluates numerical expressions involving multiple operations with whole numbers and parentheses • Represents descriptions of calculations 	<ul style="list-style-type: none"> • Evaluates numerical expressions involving multiple operations with whole numbers and parentheses • Represents descriptions of calculations

involving multiple operations with whole numbers and parentheses	with numerical expressions that include parentheses	with numerical expressions that include parentheses
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Properties and Relationships of Operations

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| <ul style="list-style-type: none"> • Applies the associative property of multiplication to whole numbers • Represents division equations with whole numbers as part-unknown multiplication equations • Represents multiplication as repeated addition • Represents subtraction equations with whole numbers as part-unknown addition equations • Understands multiplication as a comparison of sizes • Understands multiplication as many groups of equal size • Understands the inverse relationship between addition and subtraction • Understands the inverse relationship between multiplication and division | <ul style="list-style-type: none"> • Applies the associative property of multiplication to whole numbers • Applies the distributive property of multiplication to whole numbers • Represents division equations with whole numbers as part-unknown multiplication equations • Represents multiplication as repeated addition • Represents subtraction equations with whole numbers as part-unknown addition equations • Understands division as equal sharing • Understands multiplication as a comparison of sizes • Understands multiplication as many groups of equal size • Understands the inverse relationship between addition and subtraction • Understands the inverse relationship between multiplication and division | <ul style="list-style-type: none"> • Applies the distributive property of multiplication to whole numbers • Understands division as equal sharing • Understands multiplication as a comparison of sizes • Understands multiplication as many groups of equal size • Understands the inverse relationship between addition and subtraction |
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Whole Numbers and Decimals: Rounding/Estimation

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| <ul style="list-style-type: none"> • Estimates solutions to multi-step word problems involving the four operations with whole numbers • Estimates solutions to one-step word problems involving the four operations with whole numbers | <ul style="list-style-type: none"> • Estimates solutions to multi-step word problems involving the four operations with whole numbers • Estimates solutions to one-step word problems involving the four operations with whole numbers | <ul style="list-style-type: none"> • Estimates solutions to multi-step word problems involving the four operations with whole numbers • Estimates solutions to one-step word problems involving the four operations with whole numbers |
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Whole Numbers: Concepts/Properties

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|---|
| <ul style="list-style-type: none"> • Determines if sets of objects are even or odd |
|---|

Whole Numbers: Multiplication/Division

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|---|---|
| <ul style="list-style-type: none"> • Divides basic facts • Multiplies basic facts | <ul style="list-style-type: none"> • Divides basic facts |
|---|---|

Whole Numbers: Place Value

- | |
|---|
| <ul style="list-style-type: none"> • Decomposes numbers to make 10 as a strategy for addition or subtraction |
|---|

Whole Numbers: Represent and Solve Word Problems

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> • Estimates solutions to multi-step word problems involving the four operations with whole numbers • Represents multi-step word problems with expressions or equations, whole numbers | <ul style="list-style-type: none"> • Estimates solutions to multi-step word problems involving the four operations with whole numbers • Represents multi-step word problems with expressions or equations, whole numbers | <ul style="list-style-type: none"> • Estimates solutions to multi-step word problems involving the four operations with whole numbers • Represents multi-step word problems with expressions or equations, whole numbers |
|--|--|--|

- Represents one-step addition and subtraction word problems with expressions or equations, whole numbers within 100
- Represents one-step addition and subtraction word problems with expressions or equations, whole numbers within 20
- Represents one-step equal-groups multiplication word problems as expressions or equations, whole numbers
- Represents one-step multiplicative-comparison word problems as expressions or equations, whole numbers
- Solves multi-step addition and subtraction word problems, whole numbers within 100
- Solves multi-step word problems involving the four operations with whole numbers
- Solves one-step additive-comparison word problems, whole numbers within 100
- Solves one-step additive-comparison word problems, whole numbers within 20
- Solves one-step equal-groups division word problems, whole numbers within 100
- Solves one-step equal-groups multiplication word problems, whole numbers with products within 100
- Solves one-step multiplicative-comparison word problems, whole numbers products within 100
- Solves one-step put-together word problems with result unknown, whole numbers within 100
- Solves one-step put-together word problems with result unknown, whole numbers within 20
- Solves one-step put-together word problems with start, change, or part unknown, whole numbers within 100
- Solves one-step put-together word problems with start, change, or part unknown, whole numbers within 20
- Solves one-step take-apart word problems with start, change, or part unknown, whole numbers within 100
- Solves one-step take-apart word problems with start, change, or part unknown, whole numbers within 20
- Solves put-together word problems involving three addends, whole numbers within 20

- Represents one-step addition and subtraction word problems with expressions or equations, whole numbers within 100
- Represents one-step addition and subtraction word problems with expressions or equations, whole numbers within 20
- Represents one-step equal-groups division word problems as expressions or equations, whole numbers
- Represents one-step equal-groups multiplication word problems as expressions or equations, whole numbers
- Represents one-step multiplicative-comparison word problems as expressions or equations, whole numbers
- Solves multi-step addition and subtraction word problems, whole numbers greater than 100
- Solves multi-step addition and subtraction word problems, whole numbers within 100
- Solves multi-step word problems involving the four operations with whole numbers
- Solves one-step additive-comparison word problems, whole numbers within 100
- Solves one-step division word problems that require interpretation of remainders, whole numbers
- Solves one-step equal-groups division word problems, whole numbers within 100
- Solves one-step multiplication word problems with multi-digit whole numbers
- Solves one-step multiplicative-comparison word problems, whole numbers products within 100
- Solves one-step put-together word problems with result unknown, whole numbers within 20
- Solves one-step take-apart word problems with start, change, or part unknown, whole numbers within 100

- Represents one-step addition and subtraction word problems with expressions or equations, whole numbers within 100
- Represents one-step equal-groups multiplication word problems as expressions or equations, whole numbers
- Solves multi-step addition and subtraction word problems, whole numbers greater than 100
- Solves multi-step word problems involving the four operations with whole numbers
- Solves one-step additive-comparison word problems, whole numbers within 100
- Solves one-step division word problems that require interpretation of remainders, whole numbers
- Solves one-step equal-groups division word problems, whole numbers within 100
- Solves one-step multiplicative-comparison word problems, whole numbers products within 100

Sub-goal: Analyze Patterns and Relationships

191-200 Reinforce these skills & concepts	201-210 Develop these skills & concepts	211-220 Introduce these skills & concepts
Patterns/Sequences/Series		
<ul style="list-style-type: none"> • Creates or extends shape patterns 	<ul style="list-style-type: none"> • Creates or extends number patterns 	<ul style="list-style-type: none"> • Creates or extends number patterns

when given a rule <ul style="list-style-type: none"> Recognizes skip-counting patterns in 100s charts 	when given a rule <ul style="list-style-type: none"> Recognizes skip-counting patterns in 100s charts 	when given a rule <ul style="list-style-type: none"> Recognizes skip-counting patterns in 100s charts
Whole Numbers: Concepts/Properties		
<ul style="list-style-type: none"> Identifies factors of numbers less than 100 Identifies prime and composite numbers 	<ul style="list-style-type: none"> Identifies factors of numbers less than 100 Identifies multiples of single-digit numbers Identifies prime and composite numbers 	<ul style="list-style-type: none"> Identifies factors of numbers less than 100 Identifies prime and composite numbers

Goal: Number and Operations

Sub-goal: Understand Place Value, Counting, and Cardinality

191-200 Reinforce these skills & concepts	201-210 Develop these skills & concepts	211-220 Introduce these skills & concepts
Decimals: Compare/Order		
	<ul style="list-style-type: none"> Compares decimals to the hundredths using terms 	<ul style="list-style-type: none"> Compares decimals to the hundredths using terms Compares decimals to the thousandths using symbols
Decimals: Represent/Model		
	<ul style="list-style-type: none"> Represents decimals to the thousandths in word form 	<ul style="list-style-type: none"> Represents decimals to the thousandths in word form
Exponents		
		<ul style="list-style-type: none"> Multiplies whole numbers by powers of 10 shown with exponents Represents powers of 10 using exponents
Money		
	<ul style="list-style-type: none"> Rounds dollars and cents 	<ul style="list-style-type: none"> Rounds dollars and cents
Number Sentences/Equations/Equivalence		
<ul style="list-style-type: none"> Composes or decomposes whole numbers to create equivalent expressions 		
Whole Numbers and Decimals: Rounding/Estimation		
<ul style="list-style-type: none"> Rounds decimals to nearest whole number Rounds whole numbers within 1,000 Rounds whole numbers within 1,000,000 Rounds whole numbers within 100 	<ul style="list-style-type: none"> Rounds decimals to nearest whole number Rounds dollars and cents Rounds whole numbers greater than 1,000,000 Rounds whole numbers within 1,000 Rounds whole numbers within 1,000,000 Rounds whole numbers within 100 	<ul style="list-style-type: none"> Rounds decimals to nearest tenth Rounds decimals to nearest whole number Rounds dollars and cents Rounds whole numbers greater than 1,000,000 Rounds whole numbers within 1,000,000

Whole Numbers: Compare/Order								
<ul style="list-style-type: none"> Compares sets of objects within 10 using terms Compares whole numbers greater than 10,000 using symbols Compares whole numbers within 1,000 using symbols Compares whole numbers within 10,000 using symbols Compares whole numbers within 10,000 using terms Compares whole numbers within 100 using symbols 	<ul style="list-style-type: none"> Compares whole numbers greater than 10,000 using symbols Compares whole numbers greater than 10,000 using terms Compares whole numbers within 10,000 using symbols Compares whole numbers within 10,000 using terms 	<ul style="list-style-type: none"> Compares whole numbers greater than 10,000 using symbols 						
Whole Numbers: Counting and Cardinality								
<ul style="list-style-type: none"> Counts backward by 100s within 1,000 								
Whole Numbers: Place Value								
<ul style="list-style-type: none"> Identifies the number of tens and ones in a model Reads and writes whole numbers greater than 1,000,000 in word form Reads and writes whole numbers within 1,000 as hundreds, tens, and ones Reads and writes whole numbers within 1,000 in expanded form Reads and writes whole numbers within 1,000,000 in word form Reads and writes whole numbers within 10,000 in expanded form Reads and writes whole numbers within 100 as tens and ones Reads and writes whole numbers within 100,000 in expanded form Reads and writes whole numbers within 100,000 in word form Represents whole numbers greater than 1,000 with models Represents whole numbers within 1,000 with models Understands the value of a digit in whole numbers greater than 1,000,000 Understands the value of a digit in whole numbers within 1,000 Understands the value of a digit in whole numbers within 1,000,000 	<ul style="list-style-type: none"> Decomposes whole numbers within 100 into tens and ones in multiple ways Reads and writes whole numbers greater than 1,000,000 in word form Reads and writes whole numbers within 1,000 as hundreds, tens, and ones Reads and writes whole numbers within 1,000,000 in expanded form Reads and writes whole numbers within 1,000,000 in word form Reads and writes whole numbers within 10,000 as thousands, hundreds, tens, and ones Reads and writes whole numbers within 100,000 in expanded form Reads and writes whole numbers within 100,000 in word form Represents whole numbers greater than 1,000 with models Understands patterns of zeros when multiplying by 10, 100, 1,000, etc. Understands that the same digit, moved one place to the left, now represents 10 times the value Understands the value of a digit in whole numbers greater than 1,000,000 Understands the value of a digit in whole numbers within 1,000 Understands the value of a digit in whole numbers within 1,000,000 	<ul style="list-style-type: none"> Decomposes whole numbers within 100 into tens and ones in multiple ways Reads and writes whole numbers greater than 1,000,000 in word form Reads and writes whole numbers within 1,000,000 in word form Reads and writes whole numbers within 100,000 in expanded form Reads and writes whole numbers within 100,000 in word form Understands patterns of zeros when multiplying by 10, 100, 1,000, etc. Understands that the same digit, moved one place to the left, now represents 10 times the value Understands the value of a digit in whole numbers greater than 1,000,000 Understands the value of a digit in whole numbers within 1,000,000 						
<p><i>Sub-goal: Number and Operations in Base Ten</i></p> <table border="1"> <thead> <tr> <th>191-200</th> <th>201-210</th> <th>211-220</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> Reinforce these skills & concepts </td> <td style="text-align: center;"> Develop these skills & concepts </td> <td style="text-align: center;"> Introduce these skills & concepts </td> </tr> </tbody> </table>			191-200	201-210	211-220	Reinforce these skills & concepts	Develop these skills & concepts	Introduce these skills & concepts
191-200	201-210	211-220						
Reinforce these skills & concepts	Develop these skills & concepts	Introduce these skills & concepts						
Decimals: Addition/Subtraction								
<ul style="list-style-type: none"> Adds and subtracts decimals with 	<ul style="list-style-type: none"> Adds and subtracts decimals with 	<ul style="list-style-type: none"> Adds and subtracts decimals with 						

<p>different numbers of digits after the decimal point</p> <ul style="list-style-type: none"> Adds and subtracts decimals with the same number of digits after the decimal point 	<p>different numbers of digits after the decimal point</p> <ul style="list-style-type: none"> Adds and subtracts decimals with the same number of digits after the decimal point 	<p>different numbers of digits after the decimal point</p> <ul style="list-style-type: none"> Adds and subtracts decimals with the same number of digits after the decimal point Subtracts decimals from whole numbers
Decimals: Multiplication/Division		
<ul style="list-style-type: none"> Multiplies decimals by whole numbers 	<ul style="list-style-type: none"> Multiplies decimals by whole numbers 	<ul style="list-style-type: none"> Divides decimals by whole numbers Multiplies decimals by decimals Multiplies decimals by whole numbers Multiplies or divides decimals by 10, 100, or 1,000
Decimals: Represent and Solve Word Problems		
<ul style="list-style-type: none"> Solves multi-step word problems involving the four operations and decimals, including contexts involving money Solves one-step word problems involving addition and subtraction of decimals with the same number of digits after the decimal point, including contexts involving money Solves one-step word problems involving multiplication of whole numbers and decimals to the hundredths, including contexts involving money 	<ul style="list-style-type: none"> Solves multi-step word problems involving the four operations and decimals, including contexts involving money Solves one-step word problems involving addition and subtraction of decimals with a different number of digits after the decimal point Solves one-step word problems involving addition and subtraction of decimals with the same number of digits after the decimal point, including contexts involving money Solves one-step word problems involving multiplication of whole numbers and decimals to the hundredths, including contexts involving money 	<ul style="list-style-type: none"> Solves multi-step word problems involving the four operations and decimals, including contexts involving money Solves one-step word problems involving addition and subtraction of decimals with a different number of digits after the decimal point Solves one-step word problems involving addition and subtraction of decimals with the same number of digits after the decimal point, including contexts involving money Solves one-step word problems involving division of decimals to the hundredths by whole numbers, including contexts involving money Solves one-step word problems involving multiplication of whole numbers and decimals to the hundredths, including contexts involving money
Money		
<ul style="list-style-type: none"> Solves multi-step money word problems involving coins and decimals 	<ul style="list-style-type: none"> Determines the decimal value of a collection of coins and/or bills by computing with decimals Solves multi-step money word problems involving coins and decimals 	<ul style="list-style-type: none"> Determines the decimal value of a collection of coins and/or bills by computing with decimals Solves multi-step money word problems involving coins and decimals
Number Sentences/Equations/Equivalence		
<ul style="list-style-type: none"> Composes or decomposes whole numbers to create equivalent expressions 		
Problem Solving with Units		
<ul style="list-style-type: none"> Solves multi-step money word problems involving coins and decimals 	<ul style="list-style-type: none"> Solves multi-step money word problems involving coins and decimals 	<ul style="list-style-type: none"> Solves multi-step money word problems involving coins and decimals
Properties and Relationships of Operations		
<p>Understands the inverse relationship</p>	<p>Applies the commutative property of</p>	<p>Applies the distributive property of</p>

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| <ul style="list-style-type: none"> • Understands the inverse relationship between addition and subtraction | <ul style="list-style-type: none"> • Applies the commutative property of addition to whole numbers • Applies the distributive property of multiplication to whole numbers • Understands the inverse relationship between addition and subtraction | <ul style="list-style-type: none"> • Applies the distributive property of multiplication to whole numbers • Understands the inverse relationship between addition and subtraction |
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Whole Numbers and Decimals: Rounding/Estimation

- Estimates solutions to one-step word problems involving the four operations with decimals, including contexts involving money

Whole Numbers: Addition/Subtraction

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| <ul style="list-style-type: none"> • Adds three or more whole numbers with sums greater than 100 • Adds whole numbers with sums within 10,000 • Adds whole numbers with sums within 100 using models • Subtracts whole numbers greater than 1,000 • Subtracts whole numbers within 1,000, with regrouping • Subtracts whole numbers within 100, with regrouping | <ul style="list-style-type: none"> • Adds three or more whole numbers with sums greater than 100 • Subtracts whole numbers greater than 1,000 | <ul style="list-style-type: none"> • Adds three or more whole numbers with sums greater than 100 • Adds whole numbers with sums within 1,000 using models |
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Whole Numbers: Multiplication/Division

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| <ul style="list-style-type: none"> • Divides whole numbers up to four digits by one-digit divisors, with a remainder • Divides whole numbers up to four digits by one-digit divisors, without a remainder • Divides whole numbers up to four digits by two-digit divisors, with a remainder • Multiplies multi-digit whole numbers • Multiplies one-digit whole numbers by multiples of 10 • Multiplies one-digit whole numbers by two-digit whole numbers • Multiplies one-digit whole numbers by whole numbers with more than two digits • Multiplies two-digit whole numbers by two-digit whole numbers | <ul style="list-style-type: none"> • Divides multi-digit whole numbers by one-digit divisors with no remainder using models • Divides whole numbers up to four digits by one-digit divisors, with a remainder • Divides whole numbers up to four digits by one-digit divisors, without a remainder • Divides whole numbers up to four digits by two-digit divisors, with a remainder • Divides whole numbers up to four digits by two-digit divisors, without a remainder • Divides whole numbers up to four digits by two-digit divisors, without a remainder • Multiplies multi-digit whole numbers • Multiplies one-digit whole numbers by two-digit whole numbers • Multiplies one-digit whole numbers by whole numbers with more than two digits • Multiplies three or more one-digit whole numbers • Multiplies two-digit whole numbers by two-digit whole numbers | <ul style="list-style-type: none"> • Divides multi-digit whole numbers by one-digit divisors with no remainder using models • Divides whole numbers up to four digits by one-digit divisors, without a remainder • Divides whole numbers up to four digits by two-digit divisors, with a remainder • Divides whole numbers up to four digits by two-digit divisors, without a remainder • Multiplies multi-digit whole numbers • Multiplies one-digit whole numbers by whole numbers with more than two digits • Multiplies two-digit whole numbers by two-digit whole numbers |
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Whole Numbers: Represent and Solve Word Problems

- Solves one-step division word problems with multi-digit whole numbers

Sub-goal: Number and Operations - Fractions

191-200

Reinforce

201-210

Develop

211-220

Introduce

<p>Remember these skills & concepts</p>	<p>Develop these skills & concepts</p>	<p>Extend these skills & concepts</p>
<p>Fractions: Addition/Subtraction</p>		
<ul style="list-style-type: none"> • Adds and subtracts fractions with like denominators • Adds and subtracts fractions with like denominators using models other than number lines • Adds and subtracts whole numbers, fractions, and/or mixed numbers with like denominators, no regrouping 	<ul style="list-style-type: none"> • Adds and subtracts fractions with like denominators • Adds and subtracts fractions with like denominators using models other than number lines • Adds and subtracts fractions with unlike denominators • Adds and subtracts whole numbers, fractions, and/or mixed numbers with like denominators, no regrouping 	<ul style="list-style-type: none"> • Adds and subtracts fractions with like denominators • Adds and subtracts fractions with like denominators using models other than number lines • Adds and subtracts fractions with unlike denominators • Adds and subtracts whole numbers, fractions, and/or mixed numbers with like denominators, no regrouping
<p>Fractions: Compare/Order</p>		
<ul style="list-style-type: none"> • Compares fraction models with unlike numerators and denominators using words • Compares unit fractions using words 	<ul style="list-style-type: none"> • Compares fraction models with like numerators or denominators using symbols • Compares fraction models with unlike numerators and denominators using words • Compares fractions with unlike numerators and denominators using words • Compares unit fractions using words 	<ul style="list-style-type: none"> • Compares fraction models with like numerators or denominators using symbols • Compares fraction models with unlike numerators and denominators using symbols • Compares fraction models with unlike numerators and denominators using words • Compares fractions with like numerators or denominators using symbols • Compares fractions with like numerators or denominators using words • Compares fractions with unlike numerators and denominators using symbols • Compares fractions with unlike numerators and denominators using words
<p>Fractions: Equivalence</p>		
<ul style="list-style-type: none"> • Identifies equivalent fraction models • Writes equivalent fractions • Writes equivalent fractions for given area or set models 	<ul style="list-style-type: none"> • Converts between fractions with denominators of 10 and 100 • Identifies equivalent fraction models • Identifies fractions equivalent to whole numbers • Writes equivalent fractions • Writes equivalent fractions for given area or set models • Writes fractions in simplest form 	<ul style="list-style-type: none"> • Converts between fractions with denominators of 10 and 100 • Converts between mixed numbers and improper fractions • Identifies equivalent fraction models • Identifies fractions equivalent to whole numbers • Writes equivalent fractions • Writes equivalent fractions for given area or set models • Writes fractions in simplest form
<p>Fractions: Multiplication/Division</p>		
<ul style="list-style-type: none"> • Multiplies fractions by fractions, results not in simplest form • Multiplies fractions by whole numbers, results in simplest form 	<ul style="list-style-type: none"> • Multiplies fractions by fractions, results not in simplest form • Multiplies fractions by whole numbers, results in simplest form • Understands that finding fractions of whole numbers is the same as finding their product 	<ul style="list-style-type: none"> • Multiplies fractions by fractions, results in simplest form • Multiplies fractions by whole numbers, results in simplest form • Understands that finding fractions of whole numbers is the same as finding their product

Fractions: Represent and Solve Word Problems

<ul style="list-style-type: none"> • Solves one-step word problems involving addition and subtraction of fractions with like denominators • Solves one-step word problems involving addition and subtraction of fractions with like denominators using models • Solves one-step word problems involving addition and subtraction of mixed numbers with like denominators • Solves one-step word problems involving multiplication of whole numbers and unit fractions • Solves word problems about finding equivalent fractions 	<ul style="list-style-type: none"> • Solves multi-step word problems involving addition and subtraction of fractions with like denominators • Solves one-step word problems involving addition and subtraction of fractions with like denominators • Solves one-step word problems involving addition and subtraction of fractions with like denominators using models • Solves one-step word problems involving addition and subtraction of mixed numbers with like denominators • Solves one-step word problems involving multiplication of whole numbers and either fractions or mixed numbers • Solves one-step word problems involving multiplication of whole numbers and unit fractions • Solves word problems about finding equivalent fractions 	<ul style="list-style-type: none"> • Solves multi-step word problems involving addition and subtraction of fractions with like denominators • Solves multi-step word problems involving whole numbers, fractions and/or mixed numbers • Solves one-step word problems involving addition and subtraction of fractions with like denominators • Solves one-step word problems involving addition and subtraction of fractions with like denominators using models • Solves one-step word problems involving addition and subtraction of mixed numbers with like denominators • Solves one-step word problems involving addition and subtraction of mixed numbers with unlike denominators • Solves one-step word problems involving division of whole numbers by unit fractions • Solves one-step word problems involving multiplication of whole numbers and either fractions or mixed numbers • Solves one-step word problems involving multiplication of whole numbers and unit fractions • Solves word problems about finding equivalent fractions
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Fractions: Represent/Model

<ul style="list-style-type: none"> • Locates unit fractions on a number line • Models non-unit fractions using area models • Models unit fractions using area models 	<ul style="list-style-type: none"> • Locates unit fractions on a number line • Models non-unit fractions using area models 	<ul style="list-style-type: none"> • Locates non-unit proper fractions on a number line • Locates unit fractions on a number line
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Rates/Ratios/Proportions/Percents

	<ul style="list-style-type: none"> • Calculates unit rates 	<ul style="list-style-type: none"> • Calculates unit rates
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Rational Numbers: Equivalence

<ul style="list-style-type: none"> • Converts between decimals and fractions with denominators of 10 or 100 • Converts between decimals and fractions with denominators of 2, 4, or 5 	<ul style="list-style-type: none"> • Converts between decimals and fractions with denominators of 10 or 100 • Converts between decimals and fractions with denominators of 2, 4, or 5 	<ul style="list-style-type: none"> • Converts between decimals and fractions with denominators of 10 or 100 • Converts between decimals and fractions with denominators of 2, 4, or 5
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Goal: Measurement and Data

Sub-goal: Geometric Measurement and Problem Solving

<p>191-200</p> <p>Reinforce</p> <p>these skills & concepts</p>	<p>201-210</p> <p>Develop</p> <p>these skills & concepts</p>	<p>211-220</p> <p>Introduce</p> <p>these skills & concepts</p>
<p>Angle Measurement</p>		

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| <ul style="list-style-type: none"> • Compares angle measures to benchmark angles • Identifies/estimates angle measures • Measures angles using a protractor | <ul style="list-style-type: none"> • Compares angle measures to benchmark angles • Identifies/estimates angle measures • Measures angles using a protractor | <ul style="list-style-type: none"> • Compares angle measures to benchmark angles • Identifies/estimates angle measures • Measures angles using a protractor |
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Area

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| <ul style="list-style-type: none"> • Determines areas of figures composed of whole unit squares • Determines areas of rectangles with whole number sides, given the formula • Estimates areas of figures using square units | <ul style="list-style-type: none"> • Determines areas of figures composed of whole and partial unit squares • Determines areas of rectangles with whole number sides, given the formula • Determines areas of rectangles with whole-number sides • Estimates areas of figures using square units • Recognizes situations which describe area • Solves real-world and mathematical problems involving areas of rectangles | <ul style="list-style-type: none"> • Determines areas of figures composed of whole and partial unit squares • Determines areas of rectangles with whole number sides, given the formula • Determines areas of rectangles with whole-number sides • Recognizes situations which describe area • Solves real-world and mathematical problems involving areas of rectangles |
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Capacity

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| <ul style="list-style-type: none"> • Completes simple conversions of customary units of capacity | <ul style="list-style-type: none"> • Completes simple conversions of customary units of capacity • Knows relative sizes of metric units of capacity | <ul style="list-style-type: none"> • Completes complex conversions of customary units of capacity involving fractions, decimals, or more than two units • Completes simple conversions of customary units of capacity • Estimates the capacity of objects in metric units • Measures the capacity of objects in metric units • Solves multi-step capacity word problems involving whole numbers and conversion of customary units |
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Conversion of Units

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| <ul style="list-style-type: none"> • Completes complex conversions of more than two units of time • Completes simple conversions of customary units of capacity • Completes simple conversions of customary units of length • Completes simple conversions of customary units of weight • Completes simple conversions of units of time | <ul style="list-style-type: none"> • Completes complex conversions of customary units of length involving fractions, decimals, or more than two units • Completes complex conversions of more than two units of time • Completes simple conversions of customary units of capacity • Completes simple conversions of customary units of length • Completes simple conversions of customary units of weight • Completes simple conversions of units of time • Solves multi-step length word problems involving whole numbers and conversion of customary units • Solves multi-step time word problems involving conversion across seconds, minutes, hours, etc. | <ul style="list-style-type: none"> • Completes complex conversions of customary units of capacity involving fractions, decimals, or more than two units • Completes complex conversions of customary units of length involving fractions, decimals, or more than two units • Completes complex conversions of more than two units of time • Completes conversions of metric units of mass • Completes simple conversions of customary units of capacity • Completes simple conversions of customary units of length • Completes simple conversions of customary units of weight • Completes simple conversions of units of time • Solves multi-step capacity word problems involving whole numbers and conversion of customary units • Solves multi-step length word problems involving decimals or fractions and conversion of customary units • Solves multi-step length word problems |
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		<p>involving whole numbers and conversion of customary units</p> <ul style="list-style-type: none"> Solves multi-step time word problems involving conversion across seconds, minutes, hours, etc.
Length		
<ul style="list-style-type: none"> Completes simple conversions of customary units of length Knows the appropriate customary unit or tool to measure length Measures length, width, or height in nonstandard units 	<ul style="list-style-type: none"> Completes complex conversions of customary units of length involving fractions, decimals, or more than two units Completes simple conversions of customary units of length Knows the appropriate metric unit or tool to measure length Solves multi-step length word problems involving whole numbers and conversion of customary units Understands measurement involving rulers 	<ul style="list-style-type: none"> Completes complex conversions of customary units of length involving fractions, decimals, or more than two units Completes simple conversions of customary units of length Solves multi-step length word problems involving decimals or fractions and conversion of customary units Solves multi-step length word problems involving whole numbers and conversion of customary units
Money		
<ul style="list-style-type: none"> Determines the decimal value of a collection of coins and/or bills by counting on Determines the whole number value of a collection of coins given as coin names Solves money word problems involving coins Solves multi-step money word problems involving coins and decimals 	<ul style="list-style-type: none"> Solves money word problems involving coins Solves multi-step money word problems involving coins and decimals 	<ul style="list-style-type: none"> Solves multi-step money word problems involving coins and decimals
Perimeter/Circumference		
<ul style="list-style-type: none"> Determines perimeters of basic polygons in which not all sides are labeled Determines perimeters of basic polygons with all sides labeled Solves real-world and mathematical problems involving perimeters of rectangles 	<ul style="list-style-type: none"> Determines perimeters of basic polygons in which not all sides are labeled Determines side lengths given the perimeter of rectangles Solves real-world and mathematical problems involving perimeters of rectangles 	<ul style="list-style-type: none"> Counts to find perimeters of complex figures Describes the effect on perimeter when dimensions of a polygon are changed Determines perimeters of basic polygons in which not all sides are labeled Determines side lengths given the perimeter of rectangles Solves real-world and mathematical problems involving perimeters of rectangles
Problem Solving with Units		
<ul style="list-style-type: none"> Solves elapsed-time word problems across both minutes and hours Solves elapsed-time word problems across either minutes or hours Solves money word problems involving coins Solves multi-step money word problems involving coins and decimals Solves multi-step money word problems involving whole numbers Solves one-step capacity word problems involving whole number multiplication or 	<ul style="list-style-type: none"> Solves elapsed-time word problems across both minutes and hours Solves elapsed-time word problems across either minutes or hours Solves money word problems involving coins Solves multi-step length word problems involving whole numbers and conversion of customary units Solves multi-step money word problems involving coins and decimals Solves multi-step money word problems 	<ul style="list-style-type: none"> Solves elapsed-time word problems across both minutes and hours Solves elapsed-time word problems across either minutes or hours Solves multi-step capacity word problems involving whole numbers and conversion of customary units Solves multi-step length word problems involving decimals or fractions and conversion of customary units Solves multi-step length word problems involving whole numbers

<p>division</p> <ul style="list-style-type: none"> • Solves one-step length word problems involving addition or subtraction • Solves one-step money word problems involving whole number addition or subtraction • Solves one-step money word problems involving whole number multiplication or division • Solves one-step weight/mass word problems involving whole number multiplication and division • Solves real-world and mathematical problems involving perimeters of rectangles 	<p>involving whole numbers</p> <ul style="list-style-type: none"> • Solves multi-step time word problems involving conversion across seconds, minutes, hours, etc. • Solves one-step capacity word problems involving whole number multiplication or division • Solves one-step money word problems involving whole number addition or subtraction • Solves one-step time word problems involving addition or subtraction • Solves one-step time word problems involving multiplication or division • Solves one-step weight/mass word problems involving whole number addition and subtraction • Solves problems involving rectangular prisms composed of unit cubes • Solves real-world and mathematical problems involving areas of rectangles • Solves real-world and mathematical problems involving perimeters of rectangles 	<ul style="list-style-type: none"> • Solves multi-step length word problems involving whole numbers and conversion of customary units • Solves multi-step money word problems involving coins and decimals • Solves multi-step money word problems involving whole numbers • Solves multi-step temperature word problems involving whole numbers • Solves multi-step time word problems involving conversion across seconds, minutes, hours, etc. • Solves one-step capacity word problems involving whole number multiplication or division • Solves problems involving rectangular prisms composed of unit cubes • Solves real-world and mathematical problems involving areas of rectangles • Solves real-world and mathematical problems involving perimeters of rectangles
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Time

<ul style="list-style-type: none"> • Completes complex conversions of more than two units of time • Completes simple conversions of units of time • Determines elapsed time across both minutes and hours using clocks • Determines elapsed time across either minutes or hours using clocks • Reads analog clocks to the nearest five minutes • Reads analog clocks to the nearest minute • Solves elapsed-time word problems across both minutes and hours • Solves elapsed-time word problems across either minutes or hours • Understands time interval concepts: quarter to, half past, etc. 	<ul style="list-style-type: none"> • Completes complex conversions of more than two units of time • Completes simple conversions of units of time • Determines elapsed time across both minutes and hours using clocks • Determines elapsed time across either minutes or hours using clocks • Reads analog clocks to the nearest five minutes • Reads analog clocks to the nearest minute • Solves elapsed-time word problems across both minutes and hours • Solves elapsed-time word problems across either minutes or hours • Solves multi-step time word problems involving conversion across seconds, minutes, hours, etc. • Understands time interval concepts: quarter to, half past, etc. 	<ul style="list-style-type: none"> • Completes complex conversions of more than two units of time • Completes simple conversions of units of time • Determines elapsed time across both minutes and hours using clocks • Solves elapsed-time word problems across both minutes and hours • Solves elapsed-time word problems across either minutes or hours • Solves multi-step time word problems involving conversion across seconds, minutes, hours, etc.
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Volume

	<ul style="list-style-type: none"> • Determines volumes of figures by counting unit cubes • Solves problems involving rectangular prisms composed of unit cubes 	<ul style="list-style-type: none"> • Determines volumes of figures by counting unit cubes • Determines volumes of rectangular prisms • Solves problems involving rectangular prisms composed of unit cubes
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Weight/Mass

<ul style="list-style-type: none"> • Completes simple conversions of customary units of weight 	<ul style="list-style-type: none"> • Completes simple conversions of customary units of weight • Estimates the mass of objects in metric 	<ul style="list-style-type: none"> • Completes conversions of metric units of mass • Completes simple conversions of
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	units	customary units of weight
<i>Sub-goal:</i> Represent and Interpret Data		
191-200 Reinforce these skills & concepts	201-210 Develop these skills & concepts	211-220 Introduce these skills & concepts
Data Analysis		
<ul style="list-style-type: none"> • Adds and subtracts to answer questions about bar graphs with multi-unit scales • Adds and subtracts to answer questions about bar graphs with single-unit scales • Adds and subtracts to answer questions about pictographs with multi-unit scales • Adds and subtracts to answer questions about pictographs with single-unit scales • Answers multi-step questions about bar graphs with single-unit scales • Compares categories in bar graphs with multi-unit scales • Compares categories in bar graphs with single-unit scales • Compares categories in pictographs with single-unit scales • Reads bar graphs with multi-unit scales to determine how many in a category • Reads pictographs with multi-unit scales to determine how many in a category 	<ul style="list-style-type: none"> • Adds and subtracts to answer questions about bar graphs with multi-unit scales • Adds and subtracts to answer questions about bar graphs with single-unit scales • Adds and subtracts to answer questions about pictographs with multi-unit scales • Answers multi-step questions about bar graphs with single-unit scales • Reads pictographs with multi-unit scales to determine how many in a category 	<ul style="list-style-type: none"> • Adds and subtracts to answer questions about bar graphs with multi-unit scales • Adds and subtracts to answer questions about pictographs with multi-unit scales
Data Representation		
<ul style="list-style-type: none"> • Represents data in bar graphs with multi-unit scales • Represents data in bar graphs with single-unit scales • Represents data in line or dot plots with whole number scales • Represents data in pictographs with multi-unit scales • Represents data in pictographs with single-unit scales • Represents data in picture graphs with multi-unit scales • Represents data in tables or charts 	<ul style="list-style-type: none"> • Represents data in bar graphs with multi-unit scales • Represents data in bar graphs with single-unit scales • Represents data in line or dot plots with whole number scales • Represents data in pictographs with multi-unit scales • Represents data in picture graphs with multi-unit scales 	<ul style="list-style-type: none"> • Represents data in line or dot plots with fractional scales • Represents data in line or dot plots with whole number scales

Goal: Geometry

<i>Sub-goal:</i> Reason with Shapes, Attributes, & Coordinate Plane		
191-200 Reinforce these skills & concepts	201-210 Develop these skills & concepts	211-220 Introduce these skills & concepts
Angle Measurement		
<ul style="list-style-type: none"> • Compares angle measures to benchmark angles 	<ul style="list-style-type: none"> • Compares angle measures to benchmark angles 	<ul style="list-style-type: none"> • Compares angle measures to benchmark angles
Coordinate Geometry		

<ul style="list-style-type: none"> • Determines the coordinates of points in the first quadrant of a coordinate plane • Interprets points with whole number coordinates in the first quadrant within the given context • Plots the coordinates of points in the first quadrant of a coordinate plane 	<ul style="list-style-type: none"> • Determines the coordinates of missing vertices of geometric figures in the first quadrant given the other vertices plotted on the coordinate plane • Determines the coordinates of points in the first quadrant of a coordinate plane • Determines the distance between two points with the same first or second coordinate • Interprets points with whole number coordinates in the first quadrant within the given context • Plots the coordinates of points in the first quadrant of a coordinate plane 	<ul style="list-style-type: none"> • Determines the coordinates of missing vertices of geometric figures in the first quadrant given the other vertices plotted on the coordinate plane • Determines the coordinates of points in the first quadrant of a coordinate plane • Interprets points with whole number coordinates in the first quadrant within the given context • Plots the coordinates of points in the first quadrant of a coordinate plane
Fractions: Represent/Model		
<ul style="list-style-type: none"> • Identifies shapes that are divided into fourths • Identifies shapes that are divided into quarters 	<ul style="list-style-type: none"> • Identifies shapes that are divided into quarters 	
Identification and Classification of 2-D Shapes		
<ul style="list-style-type: none"> • Classifies 2-D shapes by properties • Composes or decomposes 2-D shapes to form new shapes • Identifies and names nonbasic shapes, such as trapezoids, hexagons, etc. 	<ul style="list-style-type: none"> • Classifies 2-D shapes by properties • Composes or decomposes 2-D shapes to form new shapes • Identifies and names nonbasic shapes, such as trapezoids, hexagons, etc. • Identifies properties of a 2-D shape, such as right angles, parallel sides, etc. • Knows definitions of non-basic shapes, such as trapezoids, hexagons, etc. • Knows definitions of special triangles, such as acute, right, scalene, etc. • Understands the relationships among categories of shapes 	<ul style="list-style-type: none"> • Classifies 2-D shapes by properties • Identifies and names nonbasic shapes, such as trapezoids, hexagons, etc. • Identifies properties of a 2-D shape, such as right angles, parallel sides, etc. • Knows definitions of non-basic shapes, such as trapezoids, hexagons, etc. • Knows definitions of special triangles, such as acute, right, scalene, etc. • Understands the relationships among categories of shapes
Identification and Classification of 3-D Shapes		
<ul style="list-style-type: none"> • Identifies and names cubes, cones, cylinders, and spheres • Identifies and names the 3-D shape of real-world objects • Identifies the number of faces, edges, or vertices for a 3-D object 	<ul style="list-style-type: none"> • Composes or decomposes 3-D shapes to form new shapes • Knows properties of 3-D shapes 	<ul style="list-style-type: none"> • Knows properties of 3-D shapes
Points, Lines, Segments, Rays, and Angles		
<ul style="list-style-type: none"> • Identifies acute, obtuse, or right angles • Identifies parallel lines • Identifies parallel lines involving real-world objects • Identifies points, lines, rays, line segments, and angles 	<ul style="list-style-type: none"> • Identifies acute, obtuse, or right angles • Identifies parallel lines • Identifies parallel lines involving real-world objects • Identifies points, lines, rays, line segments, and angles 	<ul style="list-style-type: none"> • Identifies acute, obtuse, or right angles • Identifies parallel lines • Identifies perpendicular lines involving real-world objects • Identifies points, lines, rays, line segments, and angles
Spatial Concepts and Symmetry		
<ul style="list-style-type: none"> • Composes or decomposes 2-D shapes 	<ul style="list-style-type: none"> • Composes or decomposes 2-D shapes to 	<ul style="list-style-type: none"> • Determines the number of lines of

to form new shapes

- Determines the number of lines of symmetry in 2-D figures
- Identifies 2-D figures which have line symmetry
- Recognizes lines of symmetry in 2-D figures

form new shapes

- Composes or decomposes 3-D shapes to form new shapes
- Determines the number of lines of symmetry in 2-D figures
- Identifies 2-D figures which have line symmetry

symmetry in 2-D figures

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