

Mathematics 2-5

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Skills and Concepts to Develop (50% Probability*) < 161	Skills and Concepts to Introduce (27% Probability*) 161 - 170
Add & Subtract: Represent and Solve Problems	Add & Subtract: Represent and Solve Problems
<ul style="list-style-type: none"> • Uses models to construct whole number addition facts with addends through 10 	<ul style="list-style-type: none"> • Solves real-world whole number addition problems with sums to 20 (result unknown) • Uses models to construct subtraction facts with differences through 10 (whole numbers)
Multiply & Divide: Represent and Solve Problems	Multiply & Divide: Represent and Solve Problems
Solve Problems & Analyze Patterns & Relationships	Solve Problems & Analyze Patterns & Relationships
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> + addition, = is equal to, - subtraction, variable

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) < 161	Skills and Concepts to Develop (50% Probability*) 161 - 170	Skills and Concepts to Introduce (27% Probability*) 171 - 180
<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Uses models to construct whole number addition facts with addends through 10 	<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Solves real-world whole number addition problems with sums to 20 (result unknown) • Uses models to construct subtraction facts with differences through 10 (whole numbers) 	<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Determines the operation needed from a simple problem • Solves problems using tally charts • Writes equivalent forms of whole number expressions (e.g., $15 + 5 = 10 + 10$) • Reads a chart or table - comparisons • Solves real-world whole number addition problems with sums to 20 (result unknown) • Solves real-world whole number addition problems with sums to 20 (start unknown) • Solves real-world whole number addition problems with sums to 100 (result unknown) • Represents a basic facts addition problem with a number sentence • Solves real-world whole number problems involving subtraction with numbers under 20 • Recognizes addition and subtraction fact families through 18
<p><i>New Vocabulary:</i> None</p>	<p><i>New Vocabulary:</i> None</p>	<p><i>New Vocabulary:</i> fact family</p>
<p><i>New Signs and Symbols:</i> None</p>	<p><i>New Signs and Symbols:</i> + addition, = is equal to, - subtraction, variable</p>	<p><i>New Signs and Symbols:</i> () order of operations, × multiplication, tally mark</p>

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 161 - 170	Skills and Concepts to Develop (50% Probability*) 171 - 180	Skills and Concepts to Introduce (27% Probability*) 181 - 190
<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> Solves real-world whole number addition problems with sums to 20 (result unknown) Uses models to construct subtraction facts with differences through 10 (whole numbers) 	<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> Determines the operation needed from a simple problem Solves problems using tally charts Writes equivalent forms of whole number expressions (e.g., $15 + 5 = 10 + 10$) Reads a chart or table - comparisons Solves real-world whole number addition problems with sums to 20 (result unknown) Solves real-world whole number addition problems with sums to 20 (start unknown) Solves real-world whole number addition problems with sums to 100 (result unknown) Represents a basic facts addition problem with a number sentence Solves real-world whole number problems involving subtraction with numbers under 20 Recognizes addition and subtraction fact families through 18 	<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> Solves real-world whole number addition problems with sums to 100 (result unknown) Instantly recalls basic addition facts with sums to 18 in a table Solves real-world whole number addition problems with sums to 20 (result unknown) - with extraneous information given Solves real-world whole number problems involving subtraction with numbers under 20 Solves real-world whole number problems involving subtraction with numbers 100 and under Solves problems using the inverse relationship between addition and subtraction Solves real-world whole number problems involving addition and subtraction Recognizes addition and subtraction fact families through 18 Solves basic facts addition and subtraction open sentences using diagrams and models (e.g., using balances) Solves 1-step open sentences with missing addends (numbers 100 and under) Determines the operation needed from a simple problem Solves simple problems based on data from tally charts Solves problems using tally charts
<p>Multiply & Divide: Represent and Solve Problems</p>	<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> Counts by 2's to 100 	<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> Models multiplication and division algorithms using arrays (whole numbers) Demonstrates an understanding of the zero property of multiplication Demonstrates an understanding of the inverse relationship between multiplication and division Distinguishes between odd and even numbers Uses counting by multiples for multiplication Solves word problems involving basic whole number multiplication facts to 10×10 Uses manipulatives to divide a small set of objects into groups of equal size Uses sharing for division Models whole number multiplication and division algorithms (e.g., shows multiplication as repeated addition and division as repeated subtraction)
<p>Solve Problems & Analyze Patterns & Relationships</p>	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Extends a growing arithmetic pattern, defined by numbers Writes a number sentence for a simple problem solving situation 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Analyzes a growing, arithmetic pattern with numbers to determine the rule

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 161 - 170	Skills and Concepts to Develop (50% Probability*) 171 - 180	Skills and Concepts to Introduce (27% Probability*) 181 - 190
Solve Problems & Analyze Patterns & Relationships	Solve Problems & Analyze Patterns & Relationships	Solve Problems & Analyze Patterns & Relationships
	<ul style="list-style-type: none"> • Adds 1-digit numbers with sums to 18 (with parentheses) • Analyzes a growing, arithmetic pattern with numbers to determine the rule 	<ul style="list-style-type: none"> • Interprets a chart or table - calculation required • Extends a growing arithmetic pattern, defined by numbers • Writes a number sentence for a simple problem solving situation • Uses rounding to estimate answers to real-world problems involving addition of numbers less than 100 (whole numbers only) • Solves real-world whole number problems involving subtraction with numbers under 1000
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> fact family	<i>New Vocabulary:</i> gave, left, row, unifix cubes
<i>New Signs and Symbols:</i> + addition, = is equal to, - subtraction, variable	<i>New Signs and Symbols:</i> () order of operations, × multiplication, tally mark	<i>New Signs and Symbols:</i> ÷ division, \$ dollar sign

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 171 - 180	Skills and Concepts to Develop (50% Probability*) 181 - 190	Skills and Concepts to Introduce (27% Probability*) 191 - 200
<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Determines the operation needed from a simple problem • Solves problems using tally charts • Writes equivalent forms of whole number expressions (e.g., $15 + 5 = 10 + 10$) • Reads a chart or table - comparisons • Solves real-world whole number addition problems with sums to 20 (result unknown) • Solves real-world whole number addition problems with sums to 20 (start unknown) • Solves real-world whole number addition problems with sums to 100 (result unknown) • Represents a basic facts addition problem with a number sentence • Solves real-world whole number problems involving subtraction with numbers under 20 • Recognizes addition and subtraction fact families through 18 	<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Solves real-world whole number addition problems with sums to 100 (result unknown) • Instantly recalls basic addition facts with sums to 18 in a table • Solves real-world whole number addition problems with sums to 20 (result unknown) - with extraneous information given • Solves real-world whole number problems involving subtraction with numbers under 20 • Solves real-world whole number problems involving subtraction with numbers 100 and under • Solves problems using the inverse relationship between addition and subtraction • Solves real-world whole number problems involving addition and subtraction • Recognizes addition and subtraction fact families through 18 • Solves basic facts addition and subtraction open sentences using diagrams and models (e.g., using balances) • Solves 1-step open sentences with missing addends (numbers 100 and under) • Determines the operation needed from a simple problem • Solves simple problems based on data from tally charts • Solves problems using tally charts 	<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Determines the operation needed from a simple problem • Solves real-world whole number addition problems with sums to 20 (result unknown) - with extraneous information given • Solves real-world whole number addition problems with sums to 20 (change unknown) • Solves real-world whole number problems involving subtraction with numbers 100 and under • Solves problems using the inverse relationship between addition and subtraction • Uses algebraic reasoning to solve problems involving equality relationships • Solves 1-step open sentences with missing addends (numbers 100 and under) • Solves 2-step open sentences with missing addends • Solves problems using tally charts
<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Counts by 2's to 100 	<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Models multiplication and division algorithms using arrays (whole numbers) • Demonstrates an understanding of the zero property of multiplication • Demonstrates an understanding of the inverse relationship between multiplication and division • Distinguishes between odd and even numbers • Uses counting by multiples for multiplication • Solves word problems involving basic whole number multiplication facts to 10×10 • Uses manipulatives to divide a small set of objects into groups of equal size • Uses sharing for division • Models whole number multiplication and division algorithms (e.g., shows multiplication as repeated addition and division as repeated subtraction) 	<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Solves word problems with whole number division facts with dividend and divisors less than 11 • Models whole number multiplication and division algorithms (e.g., shows multiplication as repeated addition and division as repeated subtraction) • Solves word problems involving basic whole number multiplication facts to 10×10 • Solves word problems involving whole number multiplication with numbers greater than 10×10 • Solves simple word problems involving whole number division with remainder (e.g., 1-step, 1-digit divisor) • Uses manipulatives to divide a small set of objects into groups of equal size • Demonstrates an understanding of the zero property of multiplication • Solves simple open sentences with missing factors (numbers 100 and under) • Distinguishes between odd and even numbers
<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> • Extends a growing arithmetic pattern, defined by numbers 	<p>Solve Problems & Analyze Patterns & Relationships</p>	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> • Extends a growing arithmetic pattern, defined by objects or diagrams

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 171 - 180	Skills and Concepts to Develop (50% Probability*) 181 - 190	Skills and Concepts to Introduce (27% Probability*) 191 - 200
<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Writes a number sentence for a simple problem solving situation Adds 1-digit numbers with sums to 18 (with parentheses) Analyzes a growing, arithmetic pattern with numbers to determine the rule 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Analyzes a growing, arithmetic pattern with numbers to determine the rule Interprets a chart or table - calculation required Extends a growing arithmetic pattern, defined by numbers Writes a number sentence for a simple problem solving situation Uses rounding to estimate answers to real-world problems involving addition of numbers less than 100 (whole numbers only) Solves real-world whole number problems involving subtraction with numbers under 1000 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Solves problems involving measurement of temperature Identifies numbers as composite Solves real-world whole number problems involving subtraction with numbers under 1000 Evaluates numerical expressions using grouping symbols (whole numbers only) Solves whole number subtraction word problems with numbers over 1000 Interprets a chart or table - calculation required Solves problems using tables Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with addition and subtraction (whole numbers only) Completes a simple function table based on real-life situations (e.g., the number of tricycles related to the number of wheels) Analyzes a growing, arithmetic pattern with numbers to determine the rule
<p><i>New Vocabulary:</i> fact family</p>	<p><i>New Vocabulary:</i> gave, left, row, unifix cubes</p>	<p><i>New Vocabulary:</i> composite number, each, prime number</p>
<p><i>New Signs and Symbols:</i> () order of operations, × multiplication, tally mark</p>	<p><i>New Signs and Symbols:</i> ÷ division, \$ dollar sign</p>	<p><i>New Signs and Symbols:</i> °F degrees Fahrenheit, lb pound</p>

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 181 - 190	Skills and Concepts to Develop (50% Probability*) 191 - 200	Skills and Concepts to Introduce (27% Probability*) 201 - 210
<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> Solves real-world whole number addition problems with sums to 100 (result unknown) Instantly recalls basic addition facts with sums to 18 in a table Solves real-world whole number addition problems with sums to 20 (result unknown) - with extraneous information given Solves real-world whole number problems involving subtraction with numbers under 20 Solves real-world whole number problems involving subtraction with numbers 100 and under Solves problems using the inverse relationship between addition and subtraction Solves real-world whole number problems involving addition and subtraction Recognizes addition and subtraction fact families through 18 Solves basic facts addition and subtraction open sentences using diagrams and models (e.g., using balances) Solves 1-step open sentences with missing addends (numbers 100 and under) Determines the operation needed from a simple problem Solves simple problems based on data from tally charts Solves problems using tally charts 	<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> Determines the operation needed from a simple problem Solves real-world whole number addition problems with sums to 20 (result unknown) - with extraneous information given Solves real-world whole number addition problems with sums to 20 (change unknown) Solves real-world whole number problems involving subtraction with numbers 100 and under Solves problems using the inverse relationship between addition and subtraction Uses algebraic reasoning to solve problems involving equality relationships Solves 1-step open sentences with missing addends (numbers 100 and under) Solves 2-step open sentences with missing addends Solves problems using tally charts 	<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> Uses algebraic reasoning to solve problems involving equality relationships Solves 2-step open sentences with missing addends Solves open sentences with basic-facts calculations on both sides of the sentence Solves real-world whole number problems involving subtraction with numbers 100 and under (analysis) Solves problems using the inverse relationship between addition and subtraction Understands equivalence and extends the concept to number sentences involving variables (e.g., $8 + 2 = \square + 2$)
<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> Models multiplication and division algorithms using arrays (whole numbers) Demonstrates an understanding of the zero property of multiplication Demonstrates an understanding of the inverse relationship between multiplication and division Distinguishes between odd and even numbers Uses counting by multiples for multiplication Solves word problems involving basic whole number multiplication facts to 10×10 Uses manipulatives to divide a small set of objects into groups of equal size Uses sharing for division Models whole number multiplication and division algorithms (e.g., shows multiplication as repeated addition and division as repeated subtraction) 	<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> Solves word problems with whole number division facts with dividend and divisors less than 11 Models whole number multiplication and division algorithms (e.g., shows multiplication as repeated addition and division as repeated subtraction) Solves word problems involving basic whole number multiplication facts to 10×10 Solves word problems involving whole number multiplication with numbers greater than 10×10 Solves simple word problems involving whole number division with remainder (e.g., 1-step, 1-digit divisor) Uses manipulatives to divide a small set of objects into groups of equal size Demonstrates an understanding of the zero property of multiplication Solves simple open sentences with missing factors (numbers 100 and under) Distinguishes between odd and even numbers 	<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> Solves simple word problems involving whole number division with remainder (e.g., 1-step, 1-digit divisor) Solves word problems with whole number division facts with dividend and divisors less than 11 Solves simple open sentences with missing factors (numbers 100 and under) Describes a realistic situation using information given in a linear equation Solves whole number word problems with division over 10×10 Solves word problems involving whole number multiplication with numbers greater than 10×10 Models whole number multiplication and division algorithms (e.g., uses physical materials to show 4 groups of 3 objects)
<p>Solve Problems & Analyze Patterns & Relationships</p>	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Extends a growing arithmetic pattern, defined by objects or diagrams 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Predicts from simple charts and tables

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 181 - 190	Skills and Concepts to Develop (50% Probability*) 191 - 200	Skills and Concepts to Introduce (27% Probability*) 201 - 210
<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Analyzes a growing, arithmetic pattern with numbers to determine the rule Interprets a chart or table - calculation required Extends a growing arithmetic pattern, defined by numbers Writes a number sentence for a simple problem solving situation Uses rounding to estimate answers to real-world problems involving addition of numbers less than 100 (whole numbers only) Solves real-world whole number problems involving subtraction with numbers under 1000 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Solves problems involving measurement of temperature Identifies numbers as composite Solves real-world whole number problems involving subtraction with numbers under 1000 Evaluates numerical expressions using grouping symbols (whole numbers only) Solves whole number subtraction word problems with numbers over 1000 Interprets a chart or table - calculation required Solves problems using tables Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with addition and subtraction (whole numbers only) Completes a simple function table based on real-life situations (e.g., the number of tricycles related to the number of wheels) Analyzes a growing, arithmetic pattern with numbers to determine the rule 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Uses simple linear equations to represent problem situations Completes a simple function table based on real-life situations (e.g., the number of tricycles related to the number of wheels) Completes a function table given a simple rule (e.g., $x + 2$) Determines the rule and completes a simple function machine output Solves problems using tables Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater with addition and subtraction (whole numbers only) Solves whole number subtraction word problems with numbers over 1000 Determines the remainder in a real-world problem (whole numbers) Uses division for multiple-step real-world problems (whole numbers) Evaluates numerical expressions using grouping symbols (whole numbers only) Solves real-world problems involving 2-step multiple operations, whole numbers only Extends a growing arithmetic pattern, defined by objects or diagrams
<p><i>New Vocabulary:</i> gave, left, row, unifix cubes</p>	<p><i>New Vocabulary:</i> composite number, each, prime number</p>	<p><i>New Vocabulary:</i> minimum, plus</p>
<p><i>New Signs and Symbols:</i> ÷ division, \$ dollar sign</p>	<p><i>New Signs and Symbols:</i> °F degrees Fahrenheit, lb pound</p>	<p><i>New Signs and Symbols:</i> ¢ cent sign, = is equal to, + positive number</p>

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 191 - 200	Skills and Concepts to Develop (50% Probability*) 201 - 210	Skills and Concepts to Introduce (27% Probability*) 211 - 220
<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Determines the operation needed from a simple problem • Solves real-world whole number addition problems with sums to 20 (result unknown) - with extraneous information given • Solves real-world whole number addition problems with sums to 20 (change unknown) • Solves real-world whole number problems involving subtraction with numbers 100 and under • Solves problems using the inverse relationship between addition and subtraction • Uses algebraic reasoning to solve problems involving equality relationships • Solves 1-step open sentences with missing addends (numbers 100 and under) • Solves 2-step open sentences with missing addends • Solves problems using tally charts 	<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Uses algebraic reasoning to solve problems involving equality relationships • Solves 2-step open sentences with missing addends • Solves open sentences with basic-facts calculations on both sides of the sentence • Solves real-world whole number problems involving subtraction with numbers 100 and under (analysis) • Solves problems using the inverse relationship between addition and subtraction • Understands equivalence and extends the concept to number sentences involving variables (e.g., $8 + 2 = \square + 2$) 	<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Solves open sentences with calculations on both sides of the sentence • Uses algebraic reasoning to solve problems involving equality relationships • Understands equivalence and extends the concept to number sentences involving variables (e.g., $8 + 2 = \square + 2$)
<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Solves word problems with whole number division facts with dividend and divisors less than 11 • Models whole number multiplication and division algorithms (e.g., shows multiplication as repeated addition and division as repeated subtraction) • Solves word problems involving basic whole number multiplication facts to 10×10 • Solves word problems involving whole number multiplication with numbers greater than 10×10 • Solves simple word problems involving whole number division with remainder (e.g., 1-step, 1-digit divisor) • Uses manipulatives to divide a small set of objects into groups of equal size • Demonstrates an understanding of the zero property of multiplication • Solves simple open sentences with missing factors (numbers 100 and under) • Distinguishes between odd and even numbers 	<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Solves simple word problems involving whole number division with remainder (e.g., 1-step, 1-digit divisor) • Solves word problems with whole number division facts with dividend and divisors less than 11 • Solves simple open sentences with missing factors (numbers 100 and under) • Describes a realistic situation using information given in a linear equation • Solves whole number word problems with division over 10×10 • Solves word problems involving whole number multiplication with numbers greater than 10×10 • Models whole number multiplication and division algorithms (e.g., uses physical materials to show 4 groups of 3 objects) 	<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Models whole number multiplication and division algorithms (e.g., uses physical materials to show 4 groups of 3 objects) • Solves problems involving rates • Solves simple open sentences with missing factors (numbers over 100) • Demonstrates an understanding of the associative property of multiplication • Predicts the relative size of the answer when multiplying whole numbers • Solves whole number word problems with division over 10×10
<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> • Extends a growing arithmetic pattern, defined by objects or diagrams • Solves problems involving measurement of temperature • Identifies numbers as composite • Solves real-world whole number problems involving subtraction with numbers under 1000 • Evaluates numerical expressions using grouping symbols (whole numbers only) 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> • Predicts from simple charts and tables • Uses simple linear equations to represent problem situations • Completes a simple function table based on real-life situations (e.g., the number of tricycles related to the number of wheels) • Completes a function table given a simple rule (e.g., $x + 2$) • Determines the rule and completes a simple function machine output 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> • Determines factors of whole numbers • Uses rounding to estimate answers to real-world problems involving multiplication and division of numbers less than 100 (whole numbers only) • Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with multiplication and division (whole numbers only)

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 191 - 200	Skills and Concepts to Develop (50% Probability*) 201 - 210	Skills and Concepts to Introduce (27% Probability*) 211 - 220
<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Solves whole number subtraction word problems with numbers over 1000 Interprets a chart or table - calculation required Solves problems using tables Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with addition and subtraction (whole numbers only) Completes a simple function table based on real-life situations (e.g., the number of tricycles related to the number of wheels) Analyzes a growing, arithmetic pattern with numbers to determine the rule 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Solves problems using tables Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater with addition and subtraction (whole numbers only) Solves whole number subtraction word problems with numbers over 1000 Determines the remainder in a real-world problem (whole numbers) Uses division for multiple-step real-world problems (whole numbers) Evaluates numerical expressions using grouping symbols (whole numbers only) Solves real-world problems involving 2-step multiple operations, whole numbers only Extends a growing arithmetic pattern, defined by objects or diagrams 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Uses rounding to estimate answers to difficult multiplication and division problems (whole numbers only) Solves complex word problems involving whole number division with remainder (e.g., 2-step, 2-digit divisor) Solves real-world problems involving 2-step multiple operations, whole numbers only Solves real-world multiple-step problems involving whole numbers Solves 1-step problems involving proportions Uses simple linear equations to represent problem situations Applies algebraic methods to solve theoretical problems Completes a function table given a simple rule (e.g., $x + 2$) Determines the rule given a simple real-world function table (e.g., # Dogs compared to # Legs) Determines the rule and completes a simple function machine output Looks for a growing pattern to solve a problem Identifies numbers as prime
<p><i>New Vocabulary:</i> composite number, each, prime number</p>	<p><i>New Vocabulary:</i> minimum, plus</p>	<p><i>New Vocabulary:</i> None</p>
<p><i>New Signs and Symbols:</i> °F degrees Fahrenheit, lb pound</p>	<p><i>New Signs and Symbols:</i> ¢ cent sign, = is equal to, + positive number</p>	<p><i>New Signs and Symbols:</i> () parenthesis around an integer, { } set notation</p>

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 201 - 210	Skills and Concepts to Develop (50% Probability*) 211 - 220	Skills and Concepts to Introduce (27% Probability*) 221 - 230
<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Uses algebraic reasoning to solve problems involving equality relationships • Solves 2-step open sentences with missing addends • Solves open sentences with basic-facts calculations on both sides of the sentence • Solves real-world whole number problems involving subtraction with numbers 100 and under (analysis) • Solves problems using the inverse relationship between addition and subtraction • Understands equivalence and extends the concept to number sentences involving variables (e.g., $8 + 2 = \square + 2$) 	<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Solves open sentences with calculations on both sides of the sentence • Uses algebraic reasoning to solve problems involving equality relationships • Understands equivalence and extends the concept to number sentences involving variables (e.g., $8 + 2 = \square + 2$) 	<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Solves open sentences with calculations on both sides of the sentence
<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Solves simple word problems involving whole number division with remainder (e.g., 1-step, 1-digit divisor) • Solves word problems with whole number division facts with dividend and divisors less than 11 • Solves simple open sentences with missing factors (numbers 100 and under) • Describes a realistic situation using information given in a linear equation • Solves whole number word problems with division over 10×10 • Solves word problems involving whole number multiplication with numbers greater than 10×10 • Models whole number multiplication and division algorithms (e.g., uses physical materials to show 4 groups of 3 objects) 	<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Models whole number multiplication and division algorithms (e.g., uses physical materials to show 4 groups of 3 objects) • Solves problems involving rates • Solves simple open sentences with missing factors (numbers over 100) • Demonstrates an understanding of the associative property of multiplication • Predicts the relative size of the answer when multiplying whole numbers • Solves whole number word problems with division over 10×10 	<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> • Models algorithms using place value concepts (multiplication and division with whole numbers) • Demonstrates an understanding of multiple properties • Solves problems involving rates
<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> • Predicts from simple charts and tables • Uses simple linear equations to represent problem situations • Completes a simple function table based on real-life situations (e.g., the number of tricycles related to the number of wheels) • Completes a function table given a simple rule (e.g., $x + 2$) • Determines the rule and completes a simple function machine output • Solves problems using tables • Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater with addition and subtraction (whole numbers only) • Solves whole number subtraction word problems with numbers over 1000 • Determines the remainder in a real-world problem (whole numbers) • Uses division for multiple-step real-world problems (whole numbers) 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> • Determines factors of whole numbers • Uses rounding to estimate answers to real-world problems involving multiplication and division of numbers less than 100 (whole numbers only) • Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with multiplication and division (whole numbers only) • Uses rounding to estimate answers to difficult multiplication and division problems (whole numbers only) • Solves complex word problems involving whole number division with remainder (e.g., 2-step, 2-digit divisor) • Solves real-world problems involving 2-step multiple operations, whole numbers only • Solves real-world multiple-step problems involving whole numbers • Solves 1-step problems involving proportions 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> • Uses rounding to estimate answers to real-world problems involving multiplication and division of numbers less than 100 (whole numbers only) • Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with multiplication and division (whole numbers only) • Solves complex word problems involving whole number division with remainder (e.g., 2-step, 2-digit divisor) • Solves real-world multiple-step problems involving whole numbers • Solves 1-step problems involving proportions • Applies algebraic methods to solve theoretical problems • Extends a growing pattern of triangular numbers, defined by objects or diagrams • Uses factor and multiple concepts to solve simple problems

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 201 - 210	Skills and Concepts to Develop (50% Probability*) 211 - 220	Skills and Concepts to Introduce (27% Probability*) 221 - 230
<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Evaluates numerical expressions using grouping symbols (whole numbers only) Solves real-world problems involving 2-step multiple operations, whole numbers only Extends a growing arithmetic pattern, defined by objects or diagrams 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Uses simple linear equations to represent problem situations Applies algebraic methods to solve theoretical problems Completes a function table given a simple rule (e.g., $x + 2$) Determines the rule given a simple real-world function table (e.g., # Dogs compared to # Legs) Determines the rule and completes a simple function machine output Looks for a growing pattern to solve a problem Identifies numbers as prime 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Uses multiple number theory concepts to solve problems (e.g., factors, digits, odd/even, divisibility) Determines factors of whole numbers Looks for a growing pattern to solve a problem Applies algebraic methods to solve real-world problems
<i>New Vocabulary:</i> minimum, plus	<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> ¢ cent sign, = is equal to, + positive number	<i>New Signs and Symbols:</i> () parenthesis around an integer, { } set notation	<i>New Signs and Symbols:</i> None

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 211 - 220	Skills and Concepts to Develop (50% Probability*) 221 - 230	Skills and Concepts to Introduce (27% Probability*) 231 - 240
<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> Solves open sentences with calculations on both sides of the sentence Uses algebraic reasoning to solve problems involving equality relationships Understands equivalence and extends the concept to number sentences involving variables (e.g., $8 + 2 = \square + 2$) 	<p>Add & Subtract: Represent and Solve Problems</p> <ul style="list-style-type: none"> Solves open sentences with calculations on both sides of the sentence 	<p>Add & Subtract: Represent and Solve Problems</p>
<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> Models whole number multiplication and division algorithms (e.g., uses physical materials to show 4 groups of 3 objects) Solves problems involving rates Solves simple open sentences with missing factors (numbers over 100) Demonstrates an understanding of the associative property of multiplication Predicts the relative size of the answer when multiplying whole numbers Solves whole number word problems with division over 10×10 	<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> Models algorithms using place value concepts (multiplication and division with whole numbers) Demonstrates an understanding of multiple properties Solves problems involving rates 	<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> Models algorithms using place value concepts (multiplication and division with whole numbers) Solves problems involving rates
<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Determines factors of whole numbers Uses rounding to estimate answers to real-world problems involving multiplication and division of numbers less than 100 (whole numbers only) Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with multiplication and division (whole numbers only) Uses rounding to estimate answers to difficult multiplication and division problems (whole numbers only) Solves complex word problems involving whole number division with remainder (e.g., 2-step, 2-digit divisor) Solves real-world problems involving 2-step multiple operations, whole numbers only Solves real-world multiple-step problems involving whole numbers Solves 1-step problems involving proportions Uses simple linear equations to represent problem situations Applies algebraic methods to solve theoretical problems Completes a function table given a simple rule (e.g., $x + 2$) Determines the rule given a simple real-world function table (e.g., # Dogs compared to # Legs) Determines the rule and completes a simple function machine output Looks for a growing pattern to solve a problem Identifies numbers as prime 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Uses rounding to estimate answers to real-world problems involving multiplication and division of numbers less than 100 (whole numbers only) Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with multiplication and division (whole numbers only) Solves complex word problems involving whole number division with remainder (e.g., 2-step, 2-digit divisor) Solves real-world multiple-step problems involving whole numbers Solves 1-step problems involving proportions Applies algebraic methods to solve theoretical problems Extends a growing pattern of triangular numbers, defined by objects or diagrams Uses factor and multiple concepts to solve simple problems Uses multiple number theory concepts to solve problems (e.g., factors, digits, odd/even, divisibility) Determines factors of whole numbers Looks for a growing pattern to solve a problem Applies algebraic methods to solve real-world problems 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Evaluates numerical expressions using the order of operations (whole numbers only) Evaluates numerical expressions using the order of operations (using integers) Applies algebraic methods to solve real-world problems Solves problems comparing unit prices

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 211 - 220	Skills and Concepts to Develop (50% Probability*) 221 - 230	Skills and Concepts to Introduce (27% Probability*) 231 - 240
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> () parenthesis around an integer, { } set notation	<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> None

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 221 - 230	Skills and Concepts to Develop (50% Probability*) 231 - 240	Skills and Concepts to Introduce (27% Probability*) 241 - 250
<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> Models algorithms using place value concepts (multiplication and division with whole numbers) Demonstrates an understanding of multiple properties Solves problems involving rates 	<p>Multiply & Divide: Represent and Solve Problems</p> <ul style="list-style-type: none"> Models algorithms using place value concepts (multiplication and division with whole numbers) Solves problems involving rates 	<p>Multiply & Divide: Represent and Solve Problems</p>
<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Uses rounding to estimate answers to real-world problems involving multiplication and division of numbers less than 100 (whole numbers only) Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with multiplication and division (whole numbers only) Solves complex word problems involving whole number division with remainder (e.g., 2-step, 2-digit divisor) Solves real-world multiple-step problems involving whole numbers Solves 1-step problems involving proportions Applies algebraic methods to solve theoretical problems Extends a growing pattern of triangular numbers, defined by objects or diagrams Uses factor and multiple concepts to solve simple problems Uses multiple number theory concepts to solve problems (e.g., factors, digits, odd/even, divisibility) Determines factors of whole numbers Looks for a growing pattern to solve a problem Applies algebraic methods to solve real-world problems 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Evaluates numerical expressions using the order of operations (whole numbers only) Evaluates numerical expressions using the order of operations (using integers) Applies algebraic methods to solve real-world problems Solves problems comparing unit prices 	<p>Solve Problems & Analyze Patterns & Relationships</p> <ul style="list-style-type: none"> Evaluates numerical expressions using the order of operations (using integers) Uses reasoning strategies to solve problems Applies algebraic methods to solve real-world problems
<p><i>New Vocabulary:</i> None</p>	<p><i>New Vocabulary:</i> None</p>	<p><i>New Vocabulary:</i> None</p>
<p><i>New Signs and Symbols:</i> None</p>	<p><i>New Signs and Symbols:</i> None</p>	<p><i>New Signs and Symbols:</i> None</p>

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 231 - 240	Skills and Concepts to Develop (50% Probability*) 241 - 250	Skills and Concepts to Introduce (27% Probability*) > 250
Multiply & Divide: Represent and Solve Problems	Multiply & Divide: Represent and Solve Problems	Multiply & Divide: Represent and Solve Problems
<ul style="list-style-type: none"> Models algorithms using place value concepts (multiplication and division with whole numbers) Solves problems involving rates 		
Solve Problems & Analyze Patterns & Relationships	Solve Problems & Analyze Patterns & Relationships	Solve Problems & Analyze Patterns & Relationships
<ul style="list-style-type: none"> Evaluates numerical expressions using the order of operations (whole numbers only) Evaluates numerical expressions using the order of operations (using integers) Applies algebraic methods to solve real-world problems Solves problems comparing unit prices 	<ul style="list-style-type: none"> Evaluates numerical expressions using the order of operations (using integers) Uses reasoning strategies to solve problems Applies algebraic methods to solve real-world problems 	<ul style="list-style-type: none"> Uses reasoning strategies to solve problems
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> None

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 241 - 250	Skills and Concepts to Develop (50% Probability*) > 250
Add & Subtract: Represent and Solve Problems	Add & Subtract: Represent and Solve Problems
Multiply & Divide: Represent and Solve Problems	Multiply & Divide: Represent and Solve Problems
Solve Problems & Analyze Patterns & Relationships <ul style="list-style-type: none"> • Evaluates numerical expressions using the order of operations (using integers) • Uses reasoning strategies to solve problems • Applies algebraic methods to solve real-world problems 	Solve Problems & Analyze Patterns & Relationships <ul style="list-style-type: none"> • Uses reasoning strategies to solve problems
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> None

Explanatory Notes

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Skills and Concepts to Develop (50% Probability*) < 161	Skills and Concepts to Introduce (27% Probability*) 161 - 170
Understand Place Value, Counting, & Cardinality	Understand Place Value, Counting, & Cardinality
<ul style="list-style-type: none"> Identifies whole numbers under 100 using base-10 blocks Identifies the numerical and written name for whole numbers 11 to 20 (e.g., 15 is fifteen, and vice versa) 	<ul style="list-style-type: none"> Writes whole numbers in standard and expanded form through the tens Identifies whole numbers under 100 using base-10 blocks Identifies the numerical and written name for whole numbers 11 to 20 (e.g., 15 is fifteen, and vice versa) Counts 1 to 10 objects Identifies missing numbers in a series through 100 Recognizes and generates equivalent forms for the same number using physical models for whole numbers 11 to 20 Orders whole numbers less than 10
Operations with Multi-digit Whole Numbers	Operations with Multi-digit Whole Numbers
<ul style="list-style-type: none"> Adds 1-digit to multiple-digit number with no regrouping Adds 1-digit to multiple-digit number with regrouping Uses models to calculate whole number sums through 99 Adds two 1-digit numbers with sums to 10 in horizontal format 	<ul style="list-style-type: none"> Uses a number line to construct addition facts with sums through 20 (whole numbers) Uses models to calculate whole number sums through 99 Adds two 1-digit numbers with sums to 10 in horizontal format Adds two 1-digit numbers with sums between 10 and 19 in horizontal format Adds two 1-digit numbers with sums between 10 and 19 in vertical format Adds multiple 1-digit numbers Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens) Adds 1-digit to multiple-digit number with no regrouping Adds 1-digit to multiple-digit number with regrouping Adds 2-digit numbers with no regrouping Subtracts two 1-digit numbers horizontally Subtracts a 1-digit number from a 2-digit number that is less than 20 (whole numbers only) Subtracts a 2-digit number from a 2-digit number, with no regrouping Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12 Solves basic-facts open sentences - addition and subtraction
Operations with Decimals	Operations with Decimals
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> + addition, = is equal to, × multiplication, variable

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) < 161	Skills and Concepts to Develop (50% Probability*) 161 - 170	Skills and Concepts to Introduce (27% Probability*) 171 - 180
<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> Identifies whole numbers under 100 using base-10 blocks Identifies the numerical and written name for whole numbers 11 to 20 (e.g., 15 is fifteen, and vice versa) 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> Writes whole numbers in standard and expanded form through the tens Identifies whole numbers under 100 using base-10 blocks Identifies the numerical and written name for whole numbers 11 to 20 (e.g., 15 is fifteen, and vice versa) Counts 1 to 10 objects Identifies missing numbers in a series through 100 Recognizes and generates equivalent forms for the same number using physical models for whole numbers 11 to 20 Orders whole numbers less than 10 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> Identifies whole numbers 100 - 999 using base-10 blocks Identifies the numerical and written name for whole numbers 21 to 100 (e.g., 62 is sixty-two, and vice versa) Identifies the numerical and written name for whole numbers 101 to 999 (e.g., 342 is three hundred forty-two, and vice versa) Identifies missing numbers in a series through 100 Counts backwards from a given number (given number greater than 10) Recognizes and generates equivalent forms for the same number using physical models for whole numbers 11 to 20 Compares sets of objects and identifies which is equal to, more than, or less than the other (1 to 10 objects) Compares whole numbers through 999 Orders sets of objects 0-10 Counts objects that are grouped into tens and ones Identifies the place value and value of each digit in whole numbers through the tens place
<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Adds 1-digit to multiple-digit number with no regrouping Adds 1-digit to multiple-digit number with regrouping Uses models to calculate whole number sums through 99 Adds two 1-digit numbers with sums to 10 in horizontal format 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Uses a number line to construct addition facts with sums through 20 (whole numbers) Uses models to calculate whole number sums through 99 Adds two 1-digit numbers with sums to 10 in horizontal format Adds two 1-digit numbers with sums between 10 and 19 in horizontal format Adds two 1-digit numbers with sums between 10 and 19 in vertical format Adds multiple 1-digit numbers Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens) Adds 1-digit to multiple-digit number with no regrouping Adds 1-digit to multiple-digit number with regrouping Adds 2-digit numbers with no regrouping Subtracts two 1-digit numbers horizontally Subtracts a 1-digit number from a 2-digit number that is less than 20 (whole numbers only) Subtracts a 2-digit number from a 2-digit number, with no regrouping Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12 Solves basic-facts open sentences - addition and subtraction 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Uses a number line to construct addition facts with sums through 20 (whole numbers) Uses models to calculate whole number sums through 999 Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens) Adds two or three 2-digit number with regrouping Adds 1- and/or 2-digit numbers with sums under 100 Adds 3-digit numbers with no regrouping Adds 3-digit numbers, with regrouping, with sums under 1000 Subtracts a 1-digit number from a 2-digit number that is less than 20 (whole numbers only) Subtracts a 2-digit number from a 2-digit number, with no regrouping Subtracts 2- and/or 3-digit numbers with no regrouping Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12 Multiplies basic facts to 10 x 10 vertically Solves basic-facts open sentences - addition and subtraction Solves basic facts open sentences - multiplication and division
<p>Operations with Decimals</p>	<p>Operations with Decimals</p>	<p>Operations with Decimals</p>

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) < 161	Skills and Concepts to Develop (50% Probability*) 161 - 170	Skills and Concepts to Introduce (27% Probability*) 171 - 180
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> hundred, thousand
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> + addition, = is equal to, × multiplication, variable	<i>New Signs and Symbols:</i> None

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 161 - 170	Skills and Concepts to Develop (50% Probability*) 171 - 180	Skills and Concepts to Introduce (27% Probability*) 181 - 190
<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> Writes whole numbers in standard and expanded form through the tens Identifies whole numbers under 100 using base-10 blocks Identifies the numerical and written name for whole numbers 11 to 20 (e.g., 15 is fifteen, and vice versa) Counts 1 to 10 objects Identifies missing numbers in a series through 100 Recognizes and generates equivalent forms for the same number using physical models for whole numbers 11 to 20 Orders whole numbers less than 10 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> Identifies whole numbers 100 - 999 using base-10 blocks Identifies the numerical and written name for whole numbers 21 to 100 (e.g., 62 is sixty-two, and vice versa) Identifies the numeral and written name for whole numbers 101 to 999 (e.g., 342 is three hundred forty-two, and vice versa) Identifies missing numbers in a series through 100 Counts backwards from a given number (given number greater than 10) Recognizes and generates equivalent forms for the same number using physical models for whole numbers 11 to 20 Compares sets of objects and identifies which is equal to, more than, or less than the other (1 to 10 objects) Compares whole numbers through 999 Orders sets of objects 0-10 Counts objects that are grouped into tens and ones Identifies the place value and value of each digit in whole numbers through the tens place 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> Rounds 2- and 3- digit whole numbers to the nearest ten Identifies the numeral and written name for whole numbers 101 to 999 (e.g., 342 is three hundred forty-two, and vice versa) Identifies the numeral and written name for whole numbers to 1000 to 9999 (e.g., 3456 is three thousand, four hundred fifty-six, and vice versa) Identifies the numeral and written name for whole numbers 10,000 to 100,000 Compares whole numbers through 999 Rounds 3-digit whole numbers to the nearest hundred Counts objects that are grouped into tens and ones Identifies whole numbers under 100 given place value terms (e.g., 3 tens and 4 ones = 34) Identifies the place value and value of each digit in whole numbers through the tens place Identifies the place value and value of each digit in whole numbers through the hundreds place Identifies the place value and value of each digit in whole numbers through the thousands Identifies the place value and value of each digit in whole numbers through the hundred thousands Compares and orders decimals to the hundredths place (same number of digits after decimal)
<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Uses a number line to construct addition facts with sums through 20 (whole numbers) Uses models to calculate whole number sums through 99 Adds two 1-digit numbers with sums to 10 in horizontal format Adds two 1-digit numbers with sums between 10 and 19 in horizontal format Adds two 1-digit numbers with sums between 10 and 19 in vertical format Adds multiple 1-digit numbers Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens) Adds 1-digit to multiple-digit number with no regrouping Adds 1-digit to multiple-digit number with regrouping Adds 2-digit numbers with no regrouping Subtracts two 1-digit numbers horizontally Subtracts a 1-digit number from a 2-digit number that is less than 20 (whole numbers only) 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Uses a number line to construct addition facts with sums through 20 (whole numbers) Uses models to calculate whole number sums through 999 Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens) Adds two or three 2-digit number with regrouping Adds 1- and/or 2-digit numbers with sums under 100 Adds 3-digit numbers with no regrouping Adds 3-digit numbers, with regrouping, with sums under 1000 Subtracts a 1-digit number from a 2-digit number that is less than 20 (whole numbers only) Subtracts a 2-digit number from a 2-digit number, with no regrouping Subtracts 2- and/or 3-digit numbers with no regrouping Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12 Multiplies basic facts to 10 x 10 vertically Solves basic-facts open sentences - addition and subtraction 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Adds two or three 2-digit number with regrouping Adds 3-digit numbers, with regrouping, with sums under 1000 Performs mental computation with 2, 3, or 4 addends Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000 Adds multiple-digit numbers, with regrouping, with sums over 1000 Uses models to calculate differences through 100 (whole numbers) Subtracts a 2-digit number from a 2-digit number, with regrouping Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on) Subtracts 2- and/or 3-digit numbers with no regrouping Subtracts 3- or 4-digit numbers with regrouping Performs mental subtraction with numbers under 1000 Subtracts multiple-digit numbers with no regrouping Identifies the number that is "1 less than" a given number Writes equivalent forms of whole numbers 11 to 20 using addition (e.g., 14 = 7 + 7)

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 161 - 170	Skills and Concepts to Develop (50% Probability*) 171 - 180	Skills and Concepts to Introduce (27% Probability*) 181 - 190
<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Subtracts a 2-digit number from a 2-digit number, with no regrouping Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12 Solves basic-facts open sentences - addition and subtraction 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Solves basic facts open sentences - multiplication and division 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Compares whole numbers through 9999 Instantly recalls basic multiplication facts where one factor is 6-12 and the other factor is 0-12 Multiplies basic facts to 10 x 10 vertically Multiplies a 2-digit number by a 1-digit number with regrouping Multiplies a 2-digit number by a 2-digit number with no regrouping Instantly recalls division facts with dividend and divisors less than 10
<p>Operations with Decimals</p>	<p>Operations with Decimals</p>	<p>Operations with Decimals</p> <ul style="list-style-type: none"> Adds decimals to the hundredths place (same number of digits)
<p><i>New Vocabulary:</i> None</p>	<p><i>New Vocabulary:</i> hundred, thousand</p>	<p><i>New Vocabulary:</i> closest, digit, hundreds, million, nearest, one, ten thousand</p>
<p><i>New Signs and Symbols:</i> + addition, = is equal to, x multiplication, variable</p>	<p><i>New Signs and Symbols:</i> None</p>	<p><i>New Signs and Symbols:</i> { } set notation, \$ dollar sign, long division symbol, - subtraction</p>

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 171 - 180	Skills and Concepts to Develop (50% Probability*) 181 - 190	Skills and Concepts to Introduce (27% Probability*) 191 - 200
<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> Identifies whole numbers 100 - 999 using base-10 blocks Identifies the numerical and written name for whole numbers 21 to 100 (e.g., 62 is sixty-two, and vice versa) Identifies the numeral and written name for whole numbers 101 to 999 (e.g., 342 is three hundred forty-two, and vice versa) Identifies missing numbers in a series through 100 Counts backwards from a given number (given number greater than 10) Recognizes and generates equivalent forms for the same number using physical models for whole numbers 11 to 20 Compares sets of objects and identifies which is equal to, more than, or less than the other (1 to 10 objects) Compares whole numbers through 999 Orders sets of objects 0-10 Counts objects that are grouped into tens and ones Identifies the place value and value of each digit in whole numbers through the tens place 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> Rounds 2- and 3- digit whole numbers to the nearest ten Identifies the numeral and written name for whole numbers 101 to 999 (e.g., 342 is three hundred forty-two, and vice versa) Identifies the numeral and written name for whole numbers 1000 to 9999 (e.g., 3456 is three thousand, four hundred fifty-six, and vice versa) Identifies the numeral and written name for whole numbers 10,000 to 100,000 Compares whole numbers through 999 Rounds 3-digit whole numbers to the nearest hundred Counts objects that are grouped into tens and ones Identifies whole numbers under 100 given place value terms (e.g., 3 tens and 4 ones = 34) Identifies the place value and value of each digit in whole numbers through the tens place Identifies the place value and value of each digit in whole numbers through the hundreds place Identifies the place value and value of each digit in whole numbers through the thousands Identifies the place value and value of each digit in whole numbers through the hundred thousands Compares and orders decimals to the hundredths place (same number of digits after decimal) 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> Writes whole numbers in standard and expanded form through the hundreds Uses rounding to estimate answers to addition and subtraction problems (whole numbers only) Identifies whole numbers over 999 using base-10 blocks Identifies the numeral and written name for whole numbers with a zero between digits to the ten thousands place Identifies the numeral and written name for whole numbers 10,000 to 100,000 Identifies the numeral and written name for whole numbers over 100,000 Compares whole numbers to 100, using the symbols for 'less than', 'equal to', or 'greater than' (<, =, >) Compares whole numbers through the thousands using the symbols <, >, or = Rounds 2- and 3- digit whole numbers to the nearest ten Rounds 3-digit whole numbers to the nearest hundred Identifies whole numbers under 100 given place value terms (e.g., 3 tens and 4 ones = 34) Identifies the place value and value of each digit in whole numbers through the thousands Identifies the place value and value of each digit in whole numbers through the hundred thousands Writes whole numbers in standard and expanded form through the thousands
<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Uses a number line to construct addition facts with sums through 20 (whole numbers) Uses models to calculate whole number sums through 999 Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens) Adds two or three 2-digit number with regrouping Adds 1- and/or 2-digit numbers with sums under 100 Adds 3-digit numbers with no regrouping Adds 3-digit numbers, with regrouping, with sums under 1000 Subtracts a 1-digit number from a 2-digit number that is less than 20 (whole numbers only) Subtracts a 2-digit number from a 2-digit number, with no regrouping Subtracts 2- and/or 3-digit numbers with no regrouping Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Adds two or three 2-digit number with regrouping Adds 3-digit numbers, with regrouping, with sums under 1000 Performs mental computation with 2, 3, or 4 addends Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000 Adds multiple-digit numbers, with regrouping, with sums over 1000 Uses models to calculate differences through 100 (whole numbers) Subtracts a 2-digit number from a 2-digit number, with regrouping Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on) Subtracts 2- and/or 3-digit numbers with no regrouping Subtracts 3- or 4-digit numbers with regrouping Performs mental subtraction with numbers under 1000 Subtracts multiple-digit numbers with no regrouping 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000 Adds multiple-digit numbers, with regrouping, with sums over 1000 Adds multiple-digit numbers with sums under 1000 Subtracts 1-digit number from a 2-digit number with regrouping Subtracts a 2-digit number from a 2-digit number, with regrouping Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on) Subtracts a 2-digit number from a 3-digit number with a single regrouping Subtracts 3- or 4-digit numbers with regrouping Performs mental subtraction with numbers under 1000 Subtracts multiple-digit numbers with no regrouping Instantly recalls basic multiplication facts where one factor is 6-12 and the other factor is 0-12

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 171 - 180	Skills and Concepts to Develop (50% Probability*) 181 - 190	Skills and Concepts to Introduce (27% Probability*) 191 - 200
Operations with Multi-digit Whole Numbers	Operations with Multi-digit Whole Numbers	Operations with Multi-digit Whole Numbers
<ul style="list-style-type: none"> Multiplies basic facts to 10 x 10 vertically Solves basic-facts open sentences - addition and subtraction Solves basic facts open sentences - multiplication and division 	<ul style="list-style-type: none"> Identifies the number that is "1 less than" a given number Writes equivalent forms of whole numbers 11 to 20 using addition (e.g., $14 = 7 + 7$) Compares whole numbers through 9999 Instantly recalls basic multiplication facts where one factor is 6-12 and the other factor is 0-12 Multiplies basic facts to 10 x 10 vertically Multiplies a 2-digit number by a 1-digit number with regrouping Multiplies a 2-digit number by a 2-digit number with no regrouping Instantly recalls division facts with dividend and divisors less than 10 	<ul style="list-style-type: none"> Multiplies a 2- or 3-digit number by a 1-digit number with no regrouping Multiplies a 2-digit number by a 1-digit number with regrouping Multiplies a 3- or 4-digit number by a 1-digit number Multiplies a 2-digit number by a 2-digit number with no regrouping Performs mental computation with multiplication Instantly recalls division facts with dividend and divisors less than 10 Instantly recalls division facts with dividend and divisors less than 13 Writes equivalent forms of whole numbers 11 to 20 using addition (e.g., $14 = 7 + 7$) Divides a 2-digit number by a 1-digit number with no remainder
Operations with Decimals	Operations with Decimals	Operations with Decimals
	<ul style="list-style-type: none"> Adds decimals to the hundredths place (same number of digits) 	<ul style="list-style-type: none"> Adds decimals to the hundredths place (same number of digits) Adds decimals to the hundredths place in vertical format (not same number of digits) Adds decimals to the thousandths place vertically with and without regrouping Subtracts decimals to the hundredths place (same number of digits) with regrouping Multiplies a decimal by whole number
<i>New Vocabulary:</i> hundred, thousand	<i>New Vocabulary:</i> closest, digit, hundreds, million, nearest, one, ten thousand	<i>New Vocabulary:</i> billion, hundred million, quintillion, standard numeral, trillion
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> { } set notation, \$ dollar sign, long division symbol, - subtraction	<i>New Signs and Symbols:</i> °F degrees Fahrenheit, > greater than, < less than, R remainder

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 181 - 190	Skills and Concepts to Develop (50% Probability*) 191 - 200	Skills and Concepts to Introduce (27% Probability*) 201 - 210
<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> • Rounds 2- and 3- digit whole numbers to the nearest ten • Identifies the numeral and written name for whole numbers 101 to 999 (e.g., 342 is three hundred forty-two, and vice versa) • Identifies the numeral and written name for whole numbers to 1000 to 9999 (e.g., 3456 is three thousand, four hundred fifty-six, and vice versa) • Identifies the numeral and written name for whole numbers 10,000 to 100,000 • Compares whole numbers through 999 • Rounds 3-digit whole numbers to the nearest hundred • Counts objects that are grouped into tens and ones • Identifies whole numbers under 100 given place value terms (e.g., 3 tens and 4 ones = 34) • Identifies the place value and value of each digit in whole numbers through the tens place • Identifies the place value and value of each digit in whole numbers through the hundreds place • Identifies the place value and value of each digit in whole numbers through the thousands • Identifies the place value and value of each digit in whole numbers through the hundred thousands • Compares and orders decimals to the hundredths place (same number of digits after decimal) 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> • Writes whole numbers in standard and expanded form through the hundreds • Uses rounding to estimate answers to addition and subtraction problems (whole numbers only) • Identifies whole numbers over 999 using base-10 blocks • Identifies the numeral and written name for whole numbers with a zero between digits to the ten thousands place • Identifies the numeral and written name for whole numbers 10,000 to 100,000 • Identifies the numeral and written name for whole numbers over 100,000 • Compares whole numbers to 100, using the symbols for 'less than', 'equal to', or 'greater than' (<, =, >) • Compares whole numbers through the thousands using the symbols <, >, or = • Rounds 2- and 3- digit whole numbers to the nearest ten • Rounds 3-digit whole numbers to the nearest hundred • Identifies whole numbers under 100 given place value terms (e.g., 3 tens and 4 ones = 34) • Identifies the place value and value of each digit in whole numbers through the thousands • Identifies the place value and value of each digit in whole numbers through the hundred thousands • Writes whole numbers in standard and expanded form through the thousands 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> • Uses rounding to estimate answers to addition and subtraction problems (whole numbers only) • Identifies whole numbers over 999 using base-10 blocks • Identifies the numeral and written name for whole numbers with a zero between digits to the ten thousands place • Identifies the numeral and written name for whole numbers over 100,000 • Compares whole numbers through the billions using the symbols <, >, or = • Orders whole numbers a million or greater using < or > symbols • Rounds 4-, 5-, and 6-digit whole numbers to the nearest ten • Rounds 4-, 5-, and 6-digit whole numbers to the nearest hundred • Rounds 4-, 5-, and 6-digit whole numbers to the nearest thousand • Rounds whole numbers to the nearest hundred thousand • Rounds wholes numbers to the nearest billion • Explains the rules for rounding • Writes equivalent forms of whole numbers using place value (e.g., 54 = 4 tens and 14 ones) • Identifies the place value and value of each digit in whole numbers through the billions • Writes whole numbers in standard and expanded form through the hundred thousands • Applies base ten place value concepts with whole numbers to solve problems • Writes whole numbers using place value terms and vice versa • Rounds decimals to the nearest whole number
<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> • Adds two or three 2-digit number with regrouping • Adds 3-digit numbers, with regrouping, with sums under 1000 • Performs mental computation with 2, 3, or 4 addends • Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000 • Adds multiple-digit numbers, with regrouping, with sums over 1000 • Uses models to calculate differences through 100 (whole numbers) • Subtracts a 2-digit number from a 2-digit number, with regrouping • Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on) • Subtracts 2- and/or 3-digit numbers with no regrouping • Subtracts 3- or 4-digit numbers with regrouping 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> • Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000 • Adds multiple-digit numbers, with regrouping, with sums over 1000 • Adds multiple-digit numbers with sums under 1000 • Subtracts 1-digit number from a 2-digit number with regrouping • Subtracts a 2-digit number from a 2-digit number, with regrouping • Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on) • Subtracts a 2-digit number from a 3-digit number with a single regrouping • Subtracts 3- or 4-digit numbers with regrouping • Performs mental subtraction with numbers under 1000 • Subtracts multiple-digit numbers with no regrouping 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> • Adds multiple-digit numbers, with regrouping, with sums over 1000 • Adds multiple-digit numbers with sums under 1000 • Performs mental computation with more than 4 addends • Subtracts 3- or 4-digit numbers with regrouping • Subtracts numbers with 5 digits or more with regrouping • Instantly recalls basic multiplication and division facts in a table • Multiplies a 2-digit number by a 1-digit number with regrouping • Multiplies a 3- or 4-digit number by a 1-digit number • Multiplies multiple 1-digit numbers • Multiplies a 2-digit number by a 2-digit number with regrouping • Multiplies a 3-digit number by a 2-digit number with regrouping • Performs mental computation with multiplication

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 181 - 190	Skills and Concepts to Develop (50% Probability*) 191 - 200	Skills and Concepts to Introduce (27% Probability*) 201 - 210
Operations with Multi-digit Whole Numbers <ul style="list-style-type: none"> • Performs mental subtraction with numbers under 1000 • Subtracts multiple-digit numbers with no regrouping • Identifies the number that is "1 less than" a given number • Writes equivalent forms of whole numbers 11 to 20 using addition (e.g., $14 = 7 + 7$) • Compares whole numbers through 9999 • Instantly recalls basic multiplication facts where one factor is 6-12 and the other factor is 0-12 • Multiplies basic facts to 10×10 vertically • Multiplies a 2-digit number by a 1-digit number with regrouping • Multiplies a 2-digit number by a 2-digit number with no regrouping • Instantly recalls division facts with dividend and divisors less than 10 	Operations with Multi-digit Whole Numbers <ul style="list-style-type: none"> • Instantly recalls basic multiplication facts where one factor is 6-12 and the other factor is 0-12 • Multiplies a 2- or 3-digit number by a 1-digit number with no regrouping • Multiplies a 2-digit number by a 1-digit number with regrouping • Multiplies a 3- or 4-digit number by a 1-digit number • Multiplies a 2-digit number by a 2-digit number with no regrouping • Performs mental computation with multiplication • Instantly recalls division facts with dividend and divisors less than 10 • Instantly recalls division facts with dividend and divisors less than 13 • Writes equivalent forms of whole numbers 11 to 20 using addition (e.g., $14 = 7 + 7$) • Divides a 2-digit number by a 1-digit number with no remainder 	Operations with Multi-digit Whole Numbers <ul style="list-style-type: none"> • Multiplies a 2- or 3-digit number by multiples of 10 or 100 • Multiplies a 3-digit number by a 3-digit number • Instantly recalls division facts with dividend and divisors less than 13 • Divides a 2-digit number by a 1-digit number with no remainder • Divides a 2-digit number or a 3-digit number by a 1-digit number with a remainder • Performs mental computation with division • Divides a 3-digit number by a 1-digit number with no remainder • Divides a 4-digit number by a 1-digit number with no remainder • Divides a 3-digit number by a multiple of 10 • Divides a 4-digit number by a 2-digit number
Operations with Decimals <ul style="list-style-type: none"> • Adds decimals to the hundredths place (same number of digits) 	Operations with Decimals <ul style="list-style-type: none"> • Adds decimals to the hundredths place (same number of digits) • Adds decimals to the hundredths place in vertical format (not same number of digits) • Adds decimals to the thousandths place vertically with and without regrouping • Subtracts decimals to the hundredths place (same number of digits) with regrouping • Multiplies a decimal by whole number 	Operations with Decimals <ul style="list-style-type: none"> • Adds decimals to the thousandths place horizontally with and without regrouping • Subtracts decimals to the hundredths place (same number of digits) with regrouping • Multiplies a decimal by whole number • Divides decimal by a whole number
<i>New Vocabulary:</i> closest, digit, hundreds, million, nearest, one, ten thousand	<i>New Vocabulary:</i> billion, hundred million, quintillion, standard numeral, trillion	<i>New Vocabulary:</i> expanded numeral
<i>New Signs and Symbols:</i> { } set notation, \$ dollar sign, long division symbol, - subtraction	<i>New Signs and Symbols:</i> °F degrees Fahrenheit, > greater than, < less than, R remainder	<i>New Signs and Symbols:</i> None

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 191 - 200	Skills and Concepts to Develop (50% Probability*) 201 - 210	Skills and Concepts to Introduce (27% Probability*) 211 - 220
<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> Writes whole numbers in standard and expanded form through the hundreds Uses rounding to estimate answers to addition and subtraction problems (whole numbers only) Identifies whole numbers over 999 using base-10 blocks Identifies the numeral and written name for whole numbers with a zero between digits to the ten thousands place Identifies the numeral and written name for whole numbers 10,000 to 100,000 Identifies the numeral and written name for whole numbers over 100,000 Compares whole numbers to 100, using the symbols for 'less than', 'equal to', or 'greater than' (<, =, >) Compares whole numbers through the thousands using the symbols <, >, or = Rounds 2- and 3- digit whole numbers to the nearest ten Rounds 3-digit whole numbers to the nearest hundred Identifies whole numbers under 100 given place value terms (e.g., 3 tens and 4 ones = 34) Identifies the place value and value of each digit in whole numbers through the thousands Identifies the place value and value of each digit in whole numbers through the hundred thousands Writes whole numbers in standard and expanded form through the thousands 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> Uses rounding to estimate answers to addition and subtraction problems (whole numbers only) Identifies whole numbers over 999 using base-10 blocks Identifies the numeral and written name for whole numbers with a zero between digits to the ten thousands place Identifies the numeral and written name for whole numbers over 100,000 Compares whole numbers through the billions using the symbols <, >, or = Orders whole numbers a million or greater using < or > symbols Rounds 4-, 5-, and 6-digit whole numbers to the nearest ten Rounds 4-, 5-, and 6-digit whole numbers to the nearest hundred Rounds 4-, 5-, and 6-digit whole numbers to the nearest thousand Rounds whole numbers to the nearest hundred thousand Rounds wholes numbers to the nearest billion Explains the rules for rounding Writes equivalent forms of whole numbers using place value (e.g., 54 = 4 tens and 14 ones) Identifies the place value and value of each digit in whole numbers through the billions Writes whole numbers in standard and expanded form through the hundred thousands Applies base ten place value concepts with whole numbers to solve problems Writes whole numbers using place value terms and vice versa Rounds decimals to the nearest whole number 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> Predicts the relative size of the answer when computing with 10's, 100's, 1000's Rounds 4-, 5-, and 6-digit whole numbers to the nearest hundred Rounds 4-, 5-, and 6-digit whole numbers to the nearest thousand Rounds 4-, 5-, and 6-digit whole numbers to the nearest ten thousand Rounds wholes numbers to the nearest billion Writes whole numbers in standard and expanded form through the hundred thousands Represents a decimal to the hundredths place (e.g., three hundredths = 0.03) Compares and orders decimals past the thousandths place Rounds decimals to the nearest whole number Rounds decimals to the nearest tenth Applies base ten place value concepts to solve problems using decimals
<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000 Adds multiple-digit numbers, with regrouping, with sums over 1000 Adds multiple-digit numbers with sums under 1000 Subtracts 1-digit number from a 2-digit number with regrouping Subtracts a 2-digit number from a 2-digit number, with regrouping Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on) Subtracts a 2-digit number from a 3-digit number with a single regrouping Subtracts 3- or 4-digit numbers with regrouping Performs mental subtraction with numbers under 1000 Subtracts multiple-digit numbers with no regrouping 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Adds multiple-digit numbers, with regrouping, with sums over 1000 Adds multiple-digit numbers with sums under 1000 Performs mental computation with more than 4 addends Subtracts 3- or 4-digit numbers with regrouping Subtracts numbers with 5 digits or more with regrouping Instantly recalls basic multiplication and division facts in a table Multiplies a 2-digit number by a 1-digit number with regrouping Multiplies a 3- or 4-digit number by a 1-digit number Multiplies multiple 1-digit numbers Multiplies a 2-digit number by a 2-digit number with regrouping Multiplies a 3-digit number by a 2-digit number with regrouping Performs mental computation with multiplication 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater using multiplication and division (whole numbers only) Subtracts numbers with 5 digits or more with regrouping Instantly recalls basic multiplication and division facts in a table Multiplies a 2-digit number by a 2-digit number with regrouping Multiplies a 3-digit number by a 2-digit number with regrouping Performs mental computation with multiplication Uses multiplication strategies to explain computation (e.g., doubles, 9-patterns, decomposing, partial products) Multiplies a 3-digit number by a 3-digit number Multiplies a 4- or more digit number by multiples of 100 or 1000 Multiplies multiple-digit numbers

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 191 - 200	Skills and Concepts to Develop (50% Probability*) 201 - 210	Skills and Concepts to Introduce (27% Probability*) 211 - 220
<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Instantly recalls basic multiplication facts where one factor is 6-12 and the other factor is 0-12 Multiplies a 2- or 3-digit number by a 1-digit number with no regrouping Multiplies a 2-digit number by a 1-digit number with regrouping Multiplies a 3- or 4-digit number by a 1-digit number Multiplies a 2-digit number by a 2-digit number with no regrouping Performs mental computation with multiplication Instantly recalls division facts with dividend and divisors less than 10 Instantly recalls division facts with dividend and divisors less than 13 Writes equivalent forms of whole numbers 11 to 20 using addition (e.g., $14 = 7 + 7$) Divides a 2-digit number by a 1-digit number with no remainder 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Multiplies a 2- or 3-digit number by multiples of 10 or 100 Multiplies a 3-digit number by a 3-digit number Instantly recalls division facts with dividend and divisors less than 13 Divides a 2-digit number by a 1-digit number with no remainder Divides a 2-digit number or a 3-digit number by a 1-digit number with a remainder Performs mental computation with division Divides a 3-digit number by a 1-digit number with no remainder Divides a 4-digit number by a 1-digit number with no remainder Divides a 3-digit number by a multiple of 10 Divides a 4-digit number by a 2-digit number 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Divides a 2-digit number or a 3-digit number by a 1-digit number with a remainder Performs mental computation with division Divides a 4-digit number by a 1-digit number with no remainder Divides a 3-digit number by a 2-digit number Divides a 4-digit number by a 2-digit number Demonstrates an understanding of the inverse relationship between addition and subtraction Demonstrates an understanding of the distributive property of multiplication by decomposing a term
<p>Operations with Decimals</p> <ul style="list-style-type: none"> Adds decimals to the hundredths place (same number of digits) Adds decimals to the hundredths place in vertical format (not same number of digits) Adds decimals to the thousandths place vertically with and without regrouping Subtracts decimals to the hundredths place (same number of digits) with regrouping Multiplies a decimal by whole number 	<p>Operations with Decimals</p> <ul style="list-style-type: none"> Adds decimals to the thousandths place horizontally with and without regrouping Subtracts decimals to the hundredths place (same number of digits) with regrouping Multiplies a decimal by whole number Divides decimal by a whole number 	<p>Operations with Decimals</p> <ul style="list-style-type: none"> Adds decimals to the hundredths place in horizontal format (not same number of digits) Adds decimals to the thousandths place horizontally with and without regrouping Adds decimals through the hundred-thousandths place Multiplies a decimal by a decimal, vertical form (factors to tenths or hundredths) Multiplies a decimal by a decimal (factors to hundredths) Divides decimal by a whole number
<p><i>New Vocabulary:</i> billion, hundred million, quintillion, standard numeral, trillion</p>	<p><i>New Vocabulary:</i> expanded numeral</p>	<p><i>New Vocabulary:</i> None</p>
<p><i>New Signs and Symbols:</i> °F degrees Fahrenheit, > greater than, < less than, R remainder</p>	<p><i>New Signs and Symbols:</i> None</p>	<p><i>New Signs and Symbols:</i> None</p>

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 201 - 210	Skills and Concepts to Develop (50% Probability*) 211 - 220	Skills and Concepts to Introduce (27% Probability*) 221 - 230
<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> • Uses rounding to estimate answers to addition and subtraction problems (whole numbers only) • Identifies whole numbers over 999 using base-10 blocks • Identifies the numeral and written name for whole numbers with a zero between digits to the ten thousands place • Identifies the numeral and written name for whole numbers over 100,000 • Compares whole numbers through the billions using the symbols <, >, or = • Orders whole numbers a million or greater using < or > symbols • Rounds 4-, 5-, and 6-digit whole numbers to the nearest ten • Rounds 4-, 5-, and 6-digit whole numbers to the nearest hundred • Rounds 4-, 5-, and 6-digit whole numbers to the nearest thousand • Rounds whole numbers to the nearest hundred thousand • Rounds wholes numbers to the nearest billion • Explains the rules for rounding • Writes equivalent forms of whole numbers using place value (e.g., 54 = 4 tens and 14 ones) • Identifies the place value and value of each digit in whole numbers through the billions • Writes whole numbers in standard and expanded form through the hundred thousands • Applies base ten place value concepts with whole numbers to solve problems • Writes whole numbers using place value terms and vice versa • Rounds decimals to the nearest whole number 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> • Predicts the relative size of the answer when computing with 10's, 100's, 1000's • Rounds 4-, 5-, and 6-digit whole numbers to the nearest hundred • Rounds 4-, 5-, and 6-digit whole numbers to the nearest thousand • Rounds 4-, 5-, and 6-digit whole numbers to the nearest ten thousand • Rounds wholes numbers to the nearest billion • Writes whole numbers in standard and expanded form through the hundred thousands • Represents a decimal to the hundredths place (e.g., three hundredths = 0.03) • Compares and orders decimals past the thousandths place • Rounds decimals to the nearest whole number • Rounds decimals to the nearest tenth • Applies base ten place value concepts to solve problems using decimals 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> • Multiplies a decimal by 10, 100, 1000 • Divides a decimal by 10, 100, 1000 • Determines the relative magnitude of whole numbers • Rounds whole numbers to the nearest million • Writes whole numbers in standard and exponential form • Represents a decimal to thousandths place (e.g., three thousandths = 0.003) • Compares and orders decimals to the hundredths place (not same number of digits after decimal) • Compares and orders decimals to the thousandths place (not same number of digits after decimal) • Compares and orders decimals past the thousandths place • Rounds decimals to the nearest hundredth • Rounds decimals to nearest thousandth • Identifies the place value and value of each digit to the hundredths and thousandths • Applies base ten place value concepts to solve problems using decimals
<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> • Adds multiple-digit numbers, with regrouping, with sums over 1000 • Adds multiple-digit numbers with sums under 1000 • Performs mental computation with more than 4 addends • Subtracts 3- or 4-digit numbers with regrouping • Subtracts numbers with 5 digits or more with regrouping • Instantly recalls basic multiplication and division facts in a table • Multiplies a 2-digit number by a 1-digit number with regrouping • Multiplies a 3- or 4-digit number by a 1-digit number • Multiplies multiple 1-digit numbers • Multiplies a 2-digit number by a 2-digit number with regrouping • Multiplies a 3-digit number by a 2-digit number with regrouping • Performs mental computation with multiplication 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> • Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater using multiplication and division (whole numbers only) • Subtracts numbers with 5 digits or more with regrouping • Instantly recalls basic multiplication and division facts in a table • Multiplies a 2-digit number by a 2-digit number with regrouping • Multiplies a 3-digit number by a 2-digit number with regrouping • Performs mental computation with multiplication • Uses multiplication strategies to explain computation (e.g., doubles, 9-patterns, decomposing, partial products) • Multiplies a 3-digit number by a 3-digit number • Multiplies a 4- or more digit number by multiples of 100 or 1000 • Multiplies multiple-digit numbers 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> • Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater using multiplication and division (whole numbers only) • Multiplies multiple-digit numbers • Divides a 4-digit number by a 2-digit number

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 201 - 210	Skills and Concepts to Develop (50% Probability*) 211 - 220	Skills and Concepts to Introduce (27% Probability*) 221 - 230
<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Multiplies a 2- or 3-digit number by multiples of 10 or 100 Multiplies a 3-digit number by a 3-digit number Instantly recalls division facts with dividend and divisors less than 13 Divides a 2-digit number by a 1-digit number with no remainder Divides a 2-digit number or a 3-digit number by a 1-digit number with a remainder Performs mental computation with division Divides a 3-digit number by a 1-digit number with no remainder Divides a 4-digit number by a 1-digit number with no remainder Divides a 3-digit number by a multiple of 10 Divides a 4-digit number by a 2-digit number 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Divides a 2-digit number or a 3-digit number by a 1-digit number with a remainder Performs mental computation with division Divides a 4-digit number by a 1-digit number with no remainder Divides a 3-digit number by a 2-digit number Divides a 4-digit number by a 2-digit number Demonstrates an understanding of the inverse relationship between addition and subtraction Demonstrates an understanding of the distributive property of multiplication by decomposing a term 	<p>Operations with Multi-digit Whole Numbers</p>
<p>Operations with Decimals</p> <ul style="list-style-type: none"> Adds decimals to the thousandths place horizontally with and without regrouping Subtracts decimals to the hundredths place (same number of digits) with regrouping Multiplies a decimal by whole number Divides decimal by a whole number 	<p>Operations with Decimals</p> <ul style="list-style-type: none"> Adds decimals to the hundredths place in horizontal format (not same number of digits) Adds decimals to the thousandths place horizontally with and without regrouping Adds decimals through the hundred-thousandths place Multiplies a decimal by a decimal, vertical form (factors to tenths or hundredths) Multiplies a decimal by a decimal (factors to hundredths) Divides decimal by a whole number 	<p>Operations with Decimals</p> <ul style="list-style-type: none"> Adds decimals to the hundredths place in horizontal format (not same number of digits) Adds decimals through the hundred-thousandths place Subtracts decimals to the hundredths place (not same number of digits) Subtracts a decimal from a whole number, horizontally Multiplies a decimal by a decimal, vertical form (factors to tenths or hundredths) Multiplies a decimal by a decimal (factors to hundredths) Multiplies a decimal by a decimal (factors to thousandths) Divides a decimal by a decimal
<i>New Vocabulary:</i> expanded numeral	<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> ten million
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> None

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 211 - 220	Skills and Concepts to Develop (50% Probability*) 221 - 230	Skills and Concepts to Introduce (27% Probability*) 231 - 240
<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> • Predicts the relative size of the answer when computing with 10's, 100's, 1000's • Rounds 4-, 5-, and 6-digit whole numbers to the nearest hundred • Rounds 4-, 5-, and 6-digit whole numbers to the nearest thousand • Rounds 4-, 5-, and 6-digit whole numbers to the nearest ten thousand • Rounds wholes numbers to the nearest billion • Writes whole numbers in standard and expanded form through the hundred thousands • Represents a decimal to the hundredths place (e.g., three hundredths = 0.03) • Compares and orders decimals past the thousandths place • Rounds decimals to the nearest whole number • Rounds decimals to the nearest tenth • Applies base ten place value concepts to solve problems using decimals 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> • Multiplies a decimal by 10, 100, 1000 • Divides a decimal by 10, 100, 1000 • Determines the relative magnitude of whole numbers • Rounds whole numbers to the nearest million • Writes whole numbers in standard and exponential form • Represents a decimal to thousandths place (e.g., three thousandths = 0.003) • Compares and orders decimals to the hundredths place (not same number of digits after decimal) • Compares and orders decimals to the thousandths place (not same number of digits after decimal) • Compares and orders decimals past the thousandths place • Rounds decimals to the nearest hundredth • Rounds decimals to nearest thousandth • Identifies the place value and value of each digit to the hundredths and thousandths • Applies base ten place value concepts to solve problems using decimals 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> • Divides numbers by powers of 10 • Multiplies a decimal by 10, 100, 1000 • Divides a decimal by 10, 100, 1000 • Determines the relative magnitude of whole numbers • Writes whole numbers in standard and exponential form • Rounds decimals to the nearest hundredth
<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> • Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater using multiplication and division (whole numbers only) • Subtracts numbers with 5 digits or more with regrouping • Instantly recalls basic multiplication and division facts in a table • Multiplies a 2-digit number by a 2-digit number with regrouping • Multiplies a 3-digit number by a 2-digit number with regrouping • Performs mental computation with multiplication • Uses multiplication strategies to explain computation (e.g., doubles, 9-patterns, decomposing, partial products) • Multiplies a 3-digit number by a 3-digit number • Multiplies a 4- or more digit number by multiples of 100 or 1000 • Multiplies multiple-digit numbers • Divides a 2-digit number or a 3-digit number by a 1-digit number with a remainder • Performs mental computation with division • Divides a 4-digit number by a 1-digit number with no remainder • Divides a 3-digit number by a 2-digit number • Divides a 4-digit number by a 2-digit number 	<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> • Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater using multiplication and division (whole numbers only) • Multiplies multiple-digit numbers • Divides a 4-digit number by a 2-digit number 	<p>Operations with Multi-digit Whole Numbers</p>

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 211 - 220	Skills and Concepts to Develop (50% Probability*) 221 - 230	Skills and Concepts to Introduce (27% Probability*) 231 - 240
Operations with Multi-digit Whole Numbers <ul style="list-style-type: none"> • Demonstrates an understanding of the inverse relationship between addition and subtraction • Demonstrates an understanding of the distributive property of multiplication by decomposing a term 	Operations with Multi-digit Whole Numbers	Operations with Multi-digit Whole Numbers
Operations with Decimals <ul style="list-style-type: none"> • Adds decimals to the hundredths place in horizontal format (not same number of digits) • Adds decimals to the thousandths place horizontally with and without regrouping • Adds decimals through the hundred-thousandths place • Multiplies a decimal by a decimal, vertical form (factors to tenths or hundredths) • Multiplies a decimal by a decimal (factors to hundredths) • Divides decimal by a whole number 	Operations with Decimals <ul style="list-style-type: none"> • Adds decimals to the hundredths place in horizontal format (not same number of digits) • Adds decimals through the hundred-thousandths place • Subtracts decimals to the hundredths place (not same number of digits) • Subtracts a decimal from a whole number, horizontally • Multiplies a decimal by a decimal, vertical form (factors to tenths or hundredths) • Multiplies a decimal by a decimal (factors to hundredths) • Multiplies a decimal by a decimal (factors to thousandths) • Divides a decimal by a decimal 	Operations with Decimals <ul style="list-style-type: none"> • Subtracts a decimal from a whole number, horizontally • Divides a whole number by a decimal • Divides a decimal by a decimal
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> ten million	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> ÷ division

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 221 - 230	Skills and Concepts to Develop (50% Probability*) 231 - 240	Skills and Concepts to Introduce (27% Probability*) > 240
<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> Multiplies a decimal by 10, 100, 1000 Divides a decimal by 10, 100, 1000 Determines the relative magnitude of whole numbers Rounds whole numbers to the nearest million Writes whole numbers in standard and exponential form Represents a decimal to thousandths place (e.g., three thousandths = 0.003) Compares and orders decimals to the hundredths place (not same number of digits after decimal) Compares and orders decimals to the thousandths place (not same number of digits after decimal) Compares and orders decimals past the thousandths place Rounds decimals to the nearest hundredth Rounds decimals to nearest thousandth Identifies the place value and value of each digit to the hundredths and thousandths Applies base ten place value concepts to solve problems using decimals 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> Divides numbers by powers of 10 Multiplies a decimal by 10, 100, 1000 Divides a decimal by 10, 100, 1000 Determines the relative magnitude of whole numbers Writes whole numbers in standard and exponential form Rounds decimals to the nearest hundredth 	<p>Understand Place Value, Counting, & Cardinality</p> <ul style="list-style-type: none"> Evaluates expressions using the order of operations, including exponents (using integers)
<p>Operations with Multi-digit Whole Numbers</p> <ul style="list-style-type: none"> Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater using multiplication and division (whole numbers only) Multiplies multiple-digit numbers Divides a 4-digit number by a 2-digit number 	<p>Operations with Multi-digit Whole Numbers</p>	<p>Operations with Multi-digit Whole Numbers</p>
<p>Operations with Decimals</p> <ul style="list-style-type: none"> Adds decimals to the hundredths place in horizontal format (not same number of digits) Adds decimals through the hundred-thousandths place Subtracts decimals to the hundredths place (not same number of digits) Subtracts a decimal from a whole number, horizontally Multiplies a decimal by a decimal, vertical form (factors to tenths or hundredths) Multiplies a decimal by a decimal (factors to hundredths) Multiplies a decimal by a decimal (factors to thousandths) Divides a decimal by a decimal 	<p>Operations with Decimals</p> <ul style="list-style-type: none"> Subtracts a decimal from a whole number, horizontally Divides a whole number by a decimal Divides a decimal by a decimal 	<p>Operations with Decimals</p>
<p><i>New Vocabulary:</i> ten million</p>	<p><i>New Vocabulary:</i> None</p>	<p><i>New Vocabulary:</i> None</p>
<p><i>New Signs and Symbols:</i> None</p>	<p><i>New Signs and Symbols:</i> ÷ division</p>	<p><i>New Signs and Symbols:</i> None</p>

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 231 - 240	Skills and Concepts to Develop (50% Probability*) > 240
Understand Place Value, Counting, & Cardinality	Understand Place Value, Counting, & Cardinality
<ul style="list-style-type: none"> Divides numbers by powers of 10 Multiplies a decimal by 10, 100, 1000 Divides a decimal by 10, 100, 1000 Determines the relative magnitude of whole numbers Writes whole numbers in standard and exponential form Rounds decimals to the nearest hundredth 	<ul style="list-style-type: none"> Evaluates expressions using the order of operations, including exponents (using integers)
Operations with Multi-digit Whole Numbers	Operations with Multi-digit Whole Numbers
Operations with Decimals	Operations with Decimals
<ul style="list-style-type: none"> Subtracts a decimal from a whole number, horizontally Divides a whole number by a decimal Divides a decimal by a decimal 	
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> ÷ division	<i>New Signs and Symbols:</i> None

Explanatory Notes

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Skills and Concepts to Develop (50% Probability*) < 181	Skills and Concepts to Introduce (27% Probability*) 181 - 190
Develop Understanding of Fractions as Numbers <ul style="list-style-type: none"> • Represents $\frac{1}{2}$ with a diagram or model • Represents $\frac{1}{4}$ with a diagram or model • Identifies one-half from a region or set 	Develop Understanding of Fractions as Numbers <ul style="list-style-type: none"> • Identifies $\frac{2}{3}$ or $\frac{3}{3}$ from a region or set • Identifies tenths from a region or set • Identifies eighths from a region or set • Identifies a fraction (denominators other than 2, 3, 4, 8, 10) from a region or set • Identifies $\frac{1}{4}$ from a region or set • Represents $\frac{3}{4}$ with a diagram or model • Identifies equal parts by using models • Identifies $\frac{1}{2}$ from a region or set • Identifies one-half from a region or set • Identifies $\frac{2}{4}$, $\frac{3}{4}$, or $\frac{4}{4}$ from a region or set
Fractions: Add, Subtract, Multiply, & Divide	Fractions: Add, Subtract, Multiply, & Divide
<i>New Vocabulary:</i> fourth, thirds	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> = is equal to

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) < 181	Skills and Concepts to Develop (50% Probability*) 181 - 190	Skills and Concepts to Introduce (27% Probability*) 191 - 200
Develop Understanding of Fractions as Numbers <ul style="list-style-type: none"> • Represents $\frac{1}{2}$ with a diagram or model • Represents $\frac{1}{4}$ with a diagram or model • Identifies one-half from a region or set 	Develop Understanding of Fractions as Numbers <ul style="list-style-type: none"> • Identifies $\frac{2}{3}$ or $\frac{3}{3}$ from a region or set • Identifies tenths from a region or set • Identifies eighths from a region or set • Identifies a fraction (denominators other than 2, 3, 4, 8, 10) from a region or set • Identifies $\frac{1}{4}$ from a region or set • Represents $\frac{3}{4}$ with a diagram or model • Identifies equal parts by using models • Identifies $\frac{1}{2}$ from a region or set • Identifies one-half from a region or set • Identifies $\frac{2}{4}$, $\frac{3}{4}$, or $\frac{4}{4}$ from a region or set 	Develop Understanding of Fractions as Numbers <ul style="list-style-type: none"> • Matches numeric and visual representation of equivalent fractions • Represents $\frac{1}{3}$ with a diagram or model • Represents fractions with denominators other than 2, 3, 4 with a diagram or model • Identifies $\frac{1}{4}$ from a region or set • Identifies $\frac{1}{3}$ from a region or set • Identifies $\frac{2}{3}$ or $\frac{3}{3}$ from a region or set • Identifies tenths from a region or set • Identifies a fraction (denominators other than 2, 3, 4, 8, 10) from a region or set • Identifies equivalent fractions using visual representations • Explains different interpretations of fractions (e.g., parts of a whole, parts of a set, and division of whole numbers by whole numbers) • Writes the missing number in a proportion using basic facts
Fractions: Add, Subtract, Multiply, & Divide	Fractions: Add, Subtract, Multiply, & Divide	Fractions: Add, Subtract, Multiply, & Divide <ul style="list-style-type: none"> • Subtracts fractions with like denominators without reducing • Solves real-world 1-step problems involving addition and subtraction of fractions with like denominators • Uses models to add and subtract fractions and connect the actions to algorithms • Solves real-world 1-step problems involving multiplication or division of a whole number by a fraction
<i>New Vocabulary:</i> fourth, thirds	<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> = is equal to	<i>New Signs and Symbols:</i> - subtraction, variable

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 181 - 190	Skills and Concepts to Develop (50% Probability*) 191 - 200	Skills and Concepts to Introduce (27% Probability*) 201 - 210
<p>Develop Understanding of Fractions as Numbers</p> <ul style="list-style-type: none"> Identifies $\frac{2}{3}$ or $\frac{3}{3}$ from a region or set Identifies tenths from a region or set Identifies eighths from a region or set Identifies a fraction (denominators other than 2, 3, 4, 8, 10) from a region or set Identifies $\frac{1}{4}$ from a region or set Represents $\frac{3}{4}$ with a diagram or model Identifies equal parts by using models Identifies $\frac{1}{2}$ from a region or set Identifies one-half from a region or set Identifies $\frac{2}{4}$, $\frac{3}{4}$, or $\frac{4}{4}$ from a region or set 	<p>Develop Understanding of Fractions as Numbers</p> <ul style="list-style-type: none"> Matches numeric and visual representation of equivalent fractions Represents $\frac{1}{3}$ with a diagram or model Represents fractions with denominators other than 2, 3, 4 with a diagram or model Identifies $\frac{1}{4}$ from a region or set Identifies $\frac{1}{3}$ from a region or set Identifies $\frac{2}{3}$ or $\frac{3}{3}$ from a region or set Identifies tenths from a region or set Identifies a fraction (denominators other than 2, 3, 4, 8, 10) from a region or set Identifies equivalent fractions using visual representations Explains different interpretations of fractions (e.g., parts of a whole, parts of a set, and division of whole numbers by whole numbers) Writes the missing number in a proportion using basic facts 	<p>Develop Understanding of Fractions as Numbers</p> <ul style="list-style-type: none"> Orders fractions on a number line Identifies halves of a region using nonadjacent parts Identifies equivalent fractions using visual representations Expresses "1" in many different ways (e.g., $\frac{3}{3}$, $\frac{4}{4}$) Converts a basic fractional numeral to lowest terms (e.g., halves, thirds, quarters) Compares fractions (e.g., common denominator, 1 in the numerator, denominator is 2, 3, 4, 6, 8, 10) Explains different interpretations of fractions (e.g., parts of a whole, parts of a set, and division of whole numbers by whole numbers) Writes a terminating decimal as a fraction or mixed number Writes the missing number in a proportion using basic facts
<p>Fractions: Add, Subtract, Multiply, & Divide</p>	<p>Fractions: Add, Subtract, Multiply, & Divide</p> <ul style="list-style-type: none"> Subtracts fractions with like denominators without reducing Solves real-world 1-step problems involving addition and subtraction of fractions with like denominators Uses models to add and subtract fractions and connect the actions to algorithms Solves real-world 1-step problems involving multiplication or division of a whole number by a fraction 	<p>Fractions: Add, Subtract, Multiply, & Divide</p> <ul style="list-style-type: none"> Multiplies a fraction by a fraction without reducing to simplest form (simple problem) Adds fractions with like denominators without reducing Adds whole numbers and fractions Uses models to add and subtract fractions and connect the actions to algorithms Subtracts fractions with like denominators without reducing Subtracts mixed fractions with like denominators with no regrouping Solves real-world 1-step problems involving addition and subtraction of fractions with like denominators
<p><i>New Vocabulary:</i> None</p>	<p><i>New Vocabulary:</i> None</p>	<p><i>New Vocabulary:</i> biggest</p>
<p><i>New Signs and Symbols:</i> = is equal to</p>	<p><i>New Signs and Symbols:</i> - subtraction, variable</p>	<p><i>New Signs and Symbols:</i> + addition, ¢ cent sign, × multiplication</p>

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 191 - 200	Skills and Concepts to Develop (50% Probability*) 201 - 210	Skills and Concepts to Introduce (27% Probability*) 211 - 220
<p>Develop Understanding of Fractions as Numbers</p> <ul style="list-style-type: none"> Matches numeric and visual representation of equivalent fractions Represents $\frac{1}{3}$ with a diagram or model Represents fractions with denominators other than 2, 3, 4 with a diagram or model Identifies $\frac{1}{4}$ from a region or set Identifies $\frac{1}{3}$ from a region or set Identifies $\frac{2}{3}$ or $\frac{3}{3}$ from a region or set Identifies tenths from a region or set Identifies a fraction (denominators other than 2, 3, 4, 8, 10) from a region or set Identifies equivalent fractions using visual representations Explains different interpretations of fractions (e.g., parts of a whole, parts of a set, and division of whole numbers by whole numbers) Writes the missing number in a proportion using basic facts 	<p>Develop Understanding of Fractions as Numbers</p> <ul style="list-style-type: none"> Orders fractions on a number line Identifies halves of a region using nonadjacent parts Identifies equivalent fractions using visual representations Expresses "1" in many different ways (e.g., $\frac{3}{3}$, $\frac{4}{4}$) Converts a basic fractional numeral to lowest terms (e.g., halves, thirds, quarters) Compares fractions (e.g., common denominator, 1 in the numerator, denominator is 2, 3, 4, 6, 8, 10) Explains different interpretations of fractions (e.g., parts of a whole, parts of a set, and division of whole numbers by whole numbers) Writes a terminating decimal as a fraction or mixed number Writes the missing number in a proportion using basic facts 	<p>Develop Understanding of Fractions as Numbers</p> <ul style="list-style-type: none"> Writes a fraction or mixed number as a decimal when the denominator is a multiple of 10 Converts fractions to lowest terms Identifies equivalent fractions using visual representations Identifies a fractions in lowest terms from a region or set Identifies eighths, reduced to lowest terms, from a region or set Determines simple equivalent fractions using multiples Compares fractions on a number line Compares fractions greater than or less than a given fraction using visual representations Compares fractions and mixed numbers Compares fractions and mixed numbers using symbols Orders fractions on a number line Explains different interpretations of fractions (e.g., parts of a whole, parts of a set, and division of whole numbers by whole numbers) Expresses a simple fraction as a decimal
<p>Fractions: Add, Subtract, Multiply, & Divide</p> <ul style="list-style-type: none"> Subtracts fractions with like denominators without reducing Solves real-world 1-step problems involving addition and subtraction of fractions with like denominators Uses models to add and subtract fractions and connect the actions to algorithms Solves real-world 1-step problems involving multiplication or division of a whole number by a fraction 	<p>Fractions: Add, Subtract, Multiply, & Divide</p> <ul style="list-style-type: none"> Multiplies a fraction by a fraction without reducing to simplest form (simple problem) Adds fractions with like denominators without reducing Adds whole numbers and fractions Uses models to add and subtract fractions and connect the actions to algorithms Subtracts fractions with like denominators without reducing Subtracts mixed fractions with like denominators with no regrouping Solves real-world 1-step problems involving addition and subtraction of fractions with like denominators 	<p>Fractions: Add, Subtract, Multiply, & Divide</p> <ul style="list-style-type: none"> Adds fractions with like denominators without reducing Adds fractions with like denominators with reducing or converting to a mixed fraction Adds fractions with unlike denominators without reducing Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths) Subtracts simple fractions with unlike denominators without reducing (e.g., halves, quarters, thirds, eighths) Subtracts fractions with unlike denominators without reducing Subtracts mixed fractions with like denominators with no regrouping Subtracts mixed fractions with unlike denominators with no regrouping Solves real-world problems involving addition and subtraction of fractions where converting one denominator is necessary Uses models to multiply and divide fractions and connect the actions to algorithms Multiplies a fraction by a fraction where reducing to simplest form is necessary Multiplies a fraction by a whole number Solves 1-step real-world problems involving fractions with multiplication and division
<p><i>New Vocabulary:</i> None</p>	<p><i>New Vocabulary:</i> biggest</p>	<p><i>New Vocabulary:</i> lowest term, lowest terms, reduce, triple</p>
<p><i>New Signs and Symbols:</i> - subtraction, variable</p>	<p><i>New Signs and Symbols:</i> + addition, ¢ cent sign, x multiplication</p>	<p><i>New Signs and Symbols:</i> > greater than, < less than, ≠ not equal to</p>

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 201 - 210	Skills and Concepts to Develop (50% Probability*) 211 - 220	Skills and Concepts to Introduce (27% Probability*) 221 - 230
<p>Develop Understanding of Fractions as Numbers</p> <ul style="list-style-type: none"> • Orders fractions on a number line • Identifies halves of a region using nonadjacent parts • Identifies equivalent fractions using visual representations • Expresses "1" in many different ways (e.g., 3/3, 4/4) • Converts a basic fractional numeral to lowest terms (e.g., halves, thirds, quarters) • Compares fractions (e.g., common denominator, 1 in the numerator, denominator is 2, 3, 4, 6, 8, 10) • Explains different interpretations of fractions (e.g., parts of a whole, parts of a set, and division of whole numbers by whole numbers) • Writes a terminating decimal as a fraction or mixed number • Writes the missing number in a proportion using basic facts 	<p>Develop Understanding of Fractions as Numbers</p> <ul style="list-style-type: none"> • Writes a fraction or mixed number as a decimal when the denominator is a multiple of 10 • Converts fractions to lowest terms • Identifies equivalent fractions using visual representations • Identifies a fractions in lowest terms from a region or set • Identifies eighths, reduced to lowest terms, from a region or set • Determines simple equivalent fractions using multiples • Compares fractions on a number line • Compares fractions greater than or less than a given fraction using visual representations • Compares fractions and mixed numbers • Compares fractions and mixed numbers using symbols • Orders fractions on a number line • Explains different interpretations of fractions (e.g., parts of a whole, parts of a set, and division of whole numbers by whole numbers) • Expresses a simple fraction as a decimal 	<p>Develop Understanding of Fractions as Numbers</p> <ul style="list-style-type: none"> • Identifies a fractions in lowest terms from a region or set • Determines simple equivalent fractions using multiples • Determines equivalent fractions using multiples • Compares fractions (e.g., comparing numerators and denominators) • Writes a decimal for a shaded region to the hundredths place • Writes a fraction or mixed number as a decimal when the denominator is a multiple of 10
<p>Fractions: Add, Subtract, Multiply, & Divide</p> <ul style="list-style-type: none"> • Multiplies a fraction by a fraction without reducing to simplest form (simple problem) • Adds fractions with like denominators without reducing • Adds whole numbers and fractions • Uses models to add and subtract fractions and connect the actions to algorithms • Subtracts fractions with like denominators without reducing • Subtracts mixed fractions with like denominators with no regrouping • Solves real-world 1-step problems involving addition and subtraction of fractions with like denominators 	<p>Fractions: Add, Subtract, Multiply, & Divide</p> <ul style="list-style-type: none"> • Adds fractions with like denominators without reducing • Adds fractions with like denominators with reducing or converting to a mixed fraction • Adds fractions with unlike denominators without reducing • Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths) • Subtracts simple fractions with unlike denominators without reducing (e.g., halves, quarters, thirds, eighths) • Subtracts fractions with unlike denominators without reducing • Subtracts mixed fractions with like denominators with no regrouping • Subtracts mixed fractions with unlike denominators with no regrouping • Solves real-world problems involving addition and subtraction of fractions where converting one denominator is necessary • Uses models to multiply and divide fractions and connect the actions to algorithms • Multiplies a fraction by a fraction where reducing to simplest form is necessary • Multiplies a fraction by a whole number • Solves 1-step real-world problems involving fractions with multiplication and division 	<p>Fractions: Add, Subtract, Multiply, & Divide</p> <ul style="list-style-type: none"> • Adds fractions with like denominators with reducing or converting to a mixed fraction • Adds fractions with unlike denominators without reducing • Adds fractions with unlike denominators with reducing or converting to a mixed fraction • Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths) • Adds mixed fractions where converting from improper fractions is necessary • Subtracts fractions with like denominators with reducing • Subtracts fractions with unlike denominators without reducing • Subtracts fractions with unlike denominators with reducing • Subtracts mixed fractions with unlike denominators with no regrouping • Subtracts whole numbers, fractions, and mixed fractions • Subtracts whole numbers, fractions, and mixed fractions with regrouping • Solves real-world problems involving addition and subtraction of fractions where converting one denominator is necessary • Uses models to multiply and divide fractions and connect the actions to algorithms • Multiplies a fraction by a fraction without reducing to simplest form (complex problem)

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 201 - 210	Skills and Concepts to Develop (50% Probability*) 211 - 220	Skills and Concepts to Introduce (27% Probability*) 221 - 230
Fractions: Add, Subtract, Multiply, & Divide	Fractions: Add, Subtract, Multiply, & Divide	Fractions: Add, Subtract, Multiply, & Divide <ul style="list-style-type: none"> • Multiplies a fraction by a fraction where reducing to simplest form is necessary • Multiplies a fraction by a whole number • Multiplies mixed fractions • Solves 1-step real-world problems involving fractions with multiplication and division • Solves 2- or more step real-world problems involving fractions with multiplication and division • Solves problems involving fractions (e.g., multiple operations, conversions) • Uses alternative algorithms to explain the meaning of "fraction"
<i>New Vocabulary:</i> biggest	<i>New Vocabulary:</i> lowest term, lowest terms, reduce, triple	<i>New Vocabulary:</i> short
<i>New Signs and Symbols:</i> + addition, ¢ cent sign, × multiplication	<i>New Signs and Symbols:</i> > greater than, < less than, ≠ not equal to	<i>New Signs and Symbols:</i> ÷ division, \$ dollar sign

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 211 - 220	Skills and Concepts to Develop (50% Probability*) 221 - 230	Skills and Concepts to Introduce (27% Probability*) 231 - 240
<p>Develop Understanding of Fractions as Numbers</p> <ul style="list-style-type: none"> Writes a fraction or mixed number as a decimal when the denominator is a multiple of 10 Converts fractions to lowest terms Identifies equivalent fractions using visual representations Identifies a fractions in lowest terms from a region or set Identifies eighths, reduced to lowest terms, from a region or set Determines simple equivalent fractions using multiples Compares fractions on a number line Compares fractions greater than or less than a given fraction using visual representations Compares fractions and mixed numbers Compares fractions and mixed numbers using symbols Orders fractions on a number line Explains different interpretations of fractions (e.g., parts of a whole, parts of a set, and division of whole numbers by whole numbers) Expresses a simple fraction as a decimal 	<p>Develop Understanding of Fractions as Numbers</p> <ul style="list-style-type: none"> Identifies a fractions in lowest terms from a region or set Determines simple equivalent fractions using multiples Determines equivalent fractions using multiples Compares fractions (e.g., comparing numerators and denominators) Writes a decimal for a shaded region to the hundredths place Writes a fraction or mixed number as a decimal when the denominator is a multiple of 10 	<p>Develop Understanding of Fractions as Numbers</p> <ul style="list-style-type: none"> Compares fractions (e.g., comparing numerators and denominators) Writes a fraction as a decimal and vice versa Compares and orders decimal and fractional coordinates on a number line
<p>Fractions: Add, Subtract, Multiply, & Divide</p> <ul style="list-style-type: none"> Adds fractions with like denominators without reducing Adds fractions with like denominators with reducing or converting to a mixed fraction Adds fractions with unlike denominators without reducing Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths) Subtracts simple fractions with unlike denominators without reducing (e.g., halves, quarters, thirds, eighths) Subtracts fractions with unlike denominators without reducing Subtracts mixed fractions with like denominators with no regrouping Subtracts mixed fractions with unlike denominators with no regrouping Solves real-world problems involving addition and subtraction of fractions where converting one denominator is necessary Uses models to multiply and divide fractions and connect the actions to algorithms Multiplies a fraction by a fraction where reducing to simplest form is necessary Multiplies a fraction by a whole number Solves 1-step real-world problems involving fractions with multiplication and division 	<p>Fractions: Add, Subtract, Multiply, & Divide</p> <ul style="list-style-type: none"> Adds fractions with like denominators with reducing or converting to a mixed fraction Adds fractions with unlike denominators without reducing Adds fractions with unlike denominators with reducing or converting to a mixed fraction Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths) Adds mixed fractions where converting from improper fractions is necessary Subtracts fractions with like denominators with reducing Subtracts fractions with unlike denominators without reducing Subtracts fractions with unlike denominators with reducing Subtracts mixed fractions with unlike denominators with no regrouping Subtracts whole numbers, fractions, and mixed fractions Subtracts whole numbers, fractions, and mixed fractions with regrouping Solves real-world problems involving addition and subtraction of fractions where converting one denominator is necessary Uses models to multiply and divide fractions and connect the actions to algorithms Multiplies a fraction by a fraction without reducing to simplest form (complex problem) 	<p>Fractions: Add, Subtract, Multiply, & Divide</p> <ul style="list-style-type: none"> Predicts the relative size of the answer when dividing a smaller whole number by a larger whole number Adds fractions with unlike denominators with reducing or converting to a mixed fraction Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths) Adds mixed fractions where converting from improper fractions is necessary Subtracts whole numbers, fractions, and mixed fractions Subtracts whole numbers, fractions, and mixed fractions with regrouping Solves real-world problems involving addition and subtraction of fractions where converting both denominators is necessary Uses models to multiply and divide fractions and connect the actions to algorithms Multiplies mixed fractions Divides a whole number by a fraction Solves 2- or more step real-world problems involving fractions with multiplication and division Solves problems involving fractions (e.g., multiple operations, conversions)

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 211 - 220	Skills and Concepts to Develop (50% Probability*) 221 - 230	Skills and Concepts to Introduce (27% Probability*) 231 - 240
Fractions: Add, Subtract, Multiply, & Divide	Fractions: Add, Subtract, Multiply, & Divide	Fractions: Add, Subtract, Multiply, & Divide
	<ul style="list-style-type: none"> • Multiplies a fraction by a fraction where reducing to simplest form is necessary • Multiplies a fraction by a whole number • Multiplies mixed fractions • Solves 1-step real-world problems involving fractions with multiplication and division • Solves 2- or more step real-world problems involving fractions with multiplication and division • Solves problems involving fractions (e.g., multiple operations, conversions) • Uses alternative algorithms to explain the meaning of "fraction" 	
<i>New Vocabulary:</i> lowest term, lowest terms, reduce, triple	<i>New Vocabulary:</i> short	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> > greater than, < less than, ≠ not equal to	<i>New Signs and Symbols:</i> ÷ division, \$ dollar sign	<i>New Signs and Symbols:</i> None

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 221 - 230	Skills and Concepts to Develop (50% Probability*) 231 - 240	Skills and Concepts to Introduce (27% Probability*) > 240
<p>Develop Understanding of Fractions as Numbers</p> <ul style="list-style-type: none"> Identifies a fractions in lowest terms from a region or set Determines simple equivalent fractions using multiples Determines equivalent fractions using multiples Compares fractions (e.g., comparing numerators and denominators) Writes a decimal for a shaded region to the hundredths place Writes a fraction or mixed number as a decimal when the denominator is a multiple of 10 	<p>Develop Understanding of Fractions as Numbers</p> <ul style="list-style-type: none"> Compares fractions (e.g., comparing numerators and denominators) Writes a fraction as a decimal and vice versa Compares and orders decimal and fractional coordinates on a number line 	<p>Develop Understanding of Fractions as Numbers</p>
<p>Fractions: Add, Subtract, Multiply, & Divide</p> <ul style="list-style-type: none"> Adds fractions with like denominators with reducing or converting to a mixed fraction Adds fractions with unlike denominators without reducing Adds fractions with unlike denominators with reducing or converting to a mixed fraction Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths) Adds mixed fractions where converting from improper fractions is necessary Subtracts fractions with like denominators with reducing Subtracts fractions with unlike denominators without reducing Subtracts fractions with unlike denominators with reducing Subtracts mixed fractions with unlike denominators with no regrouping Subtracts whole numbers, fractions, and mixed fractions Subtracts whole numbers, fractions, and mixed fractions with regrouping Solves real-world problems involving addition and subtraction of fractions where converting one denominator is necessary Uses models to multiply and divide fractions and connect the actions to algorithms Multiplies a fraction by a fraction without reducing to simplest form (complex problem) Multiplies a fraction by a fraction where reducing to simplest form is necessary Multiplies a fraction by a whole number Multiplies mixed fractions Solves 1-step real-world problems involving fractions with multiplication and division Solves 2- or more step real-world problems involving fractions with multiplication and division Solves problems involving fractions (e.g., multiple operations, conversions) 	<p>Fractions: Add, Subtract, Multiply, & Divide</p> <ul style="list-style-type: none"> Predicts the relative size of the answer when dividing a smaller whole number by a larger whole number Adds fractions with unlike denominators with reducing or converting to a mixed fraction Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths) Adds mixed fractions where converting from improper fractions is necessary Subtracts whole numbers, fractions, and mixed fractions Subtracts whole numbers, fractions, and mixed fractions with regrouping Solves real-world problems involving addition and subtraction of fractions where converting both denominators is necessary Uses models to multiply and divide fractions and connect the actions to algorithms Multiplies mixed fractions Divides a whole number by a fraction Solves 2- or more step real-world problems involving fractions with multiplication and division Solves problems involving fractions (e.g., multiple operations, conversions) 	<p>Fractions: Add, Subtract, Multiply, & Divide</p> <ul style="list-style-type: none"> Solves open sentences with fractions Identifies the least common multiple of whole numbers

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 221 - 230	Skills and Concepts to Develop (50% Probability*) 231 - 240	Skills and Concepts to Introduce (27% Probability*) > 240
Fractions: Add, Subtract, Multiply, & Divide	Fractions: Add, Subtract, Multiply, & Divide	Fractions: Add, Subtract, Multiply, & Divide
<ul style="list-style-type: none"> • Uses alternative algorithms to explain the meaning of "fraction" 		
<i>New Vocabulary:</i> short	<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> ÷ division, \$ dollar sign	<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> None

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 231 - 240	Skills and Concepts to Develop (50% Probability*) > 240
Develop Understanding of Fractions as Numbers <ul style="list-style-type: none"> • Compares fractions (e.g., comparing numerators and denominators) • Writes a fraction as a decimal and vice versa • Compares and orders decimal and fractional coordinates on a number line 	Develop Understanding of Fractions as Numbers
Fractions: Add, Subtract, Multiply, & Divide <ul style="list-style-type: none"> • Predicts the relative size of the answer when dividing a smaller whole number by a larger whole number • Adds fractions with unlike denominators with reducing or converting to a mixed fraction • Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths) • Adds mixed fractions where converting from improper fractions is necessary • Subtracts whole numbers, fractions, and mixed fractions • Subtracts whole numbers, fractions, and mixed fractions with regrouping • Solves real-world problems involving addition and subtraction of fractions where converting both denominators is necessary • Uses models to multiply and divide fractions and connect the actions to algorithms • Multiplies mixed fractions • Divides a whole number by a fraction • Solves 2- or more step real-world problems involving fractions with multiplication and division • Solves problems involving fractions (e.g., multiple operations, conversions) 	Fractions: Add, Subtract, Multiply, & Divide <ul style="list-style-type: none"> • Solves open sentences with fractions • Identifies the least common multiple of whole numbers
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> None

Explanatory Notes

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Skills and Concepts to Develop (50% Probability*) < 161	Skills and Concepts to Introduce (27% Probability*) 161 - 170
Solve Problems Involving Measurement & Conversion	Solve Problems Involving Measurement & Conversion
	<ul style="list-style-type: none"> Tells time to the nearest hour Tells time to the nearest half hour Compares objects (shorter, longer) Estimates and measures length of an object to the nearest inch using a picture of a ruler Measures length with customary measures to the inch mark Measures length with metric measures to the centimeter mark
Geometric Measurement	Geometric Measurement
Represent and Interpret Data	Represent and Interpret Data
<ul style="list-style-type: none"> Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) 	<ul style="list-style-type: none"> Reads a chart or table - numbers Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) Displays data appropriately - bar graph - scale is 1 to 1 Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) Compares data from simple graphs (e.g., largest, smallest, most often, least often)
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> dollar, longest, shortest
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> = is equal to, : used with time

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) < 161	Skills and Concepts to Develop (50% Probability*) 161 - 170	Skills and Concepts to Introduce (27% Probability*) 171 - 180
Solve Problems Involving Measurement & Conversion	Solve Problems Involving Measurement & Conversion	Solve Problems Involving Measurement & Conversion
	<ul style="list-style-type: none"> Tells time to the nearest hour Tells time to the nearest half hour Compares objects (shorter, longer) Estimates and measures length of an object to the nearest inch using a picture of a ruler Measures length with customary measures to the inch mark Measures length with metric measures to the centimeter mark 	<ul style="list-style-type: none"> Identifies the value of a collection of coins and bills to \$10.00 by "counting on" (with picture of money) Identifies the value of a collection of coins to \$1.00 (with pictures of coins) Estimates and measures length of an object to the nearest centimeter using a picture of a ruler Measures length with customary measures to the inch mark Tells time to the nearest hour Tells time to the nearest half hour Tells time to the nearest 5 minutes Computes simple conversions among units of time (minutes in an hour, half hour, quarter hour) Connects money with place value
Geometric Measurement	Geometric Measurement	Geometric Measurement
		<ul style="list-style-type: none"> Determines the area of irregular shapes by counting square units
Represent and Interpret Data	Represent and Interpret Data	Represent and Interpret Data
<ul style="list-style-type: none"> Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) 	<ul style="list-style-type: none"> Reads a chart or table - numbers Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) Displays data appropriately - bar graph - scale is 1 to 1 Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) Compares data from simple graphs (e.g., largest, smallest, most often, least often) 	<ul style="list-style-type: none"> Reads a chart or table - numbers Interprets simple graphs or tables Interprets data using tally charts Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) Solves simple problems based on data from pictographs Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) Reads a simple bar graph - numbers (e.g., how many) Solves simple problems based on data from bar graphs Compares data from simple graphs (e.g., largest, smallest, most often, least often)
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> dollar, longest, shortest	<i>New Vocabulary:</i> fewer, morning, taller
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> = is equal to, : used with time	<i>New Signs and Symbols:</i> a.m., ¢ cent sign, cm centimeter/centimetre, \$ dollar sign, p.m.

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 161 - 170	Skills and Concepts to Develop (50% Probability*) 171 - 180	Skills and Concepts to Introduce (27% Probability*) 181 - 190
<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Tells time to the nearest hour • Tells time to the nearest half hour • Compares objects (shorter, longer) • Estimates and measures length of an object to the nearest inch using a picture of a ruler • Measures length with customary measures to the inch mark • Measures length with metric measures to the centimeter mark 	<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Identifies the value of a collection of coins and bills to \$10.00 by "counting on" (with picture of money) • Identifies the value of a collection of coins to \$1.00 (with pictures of coins) • Estimates and measures length of an object to the nearest centimeter using a picture of a ruler • Measures length with customary measures to the inch mark • Tells time to the nearest hour • Tells time to the nearest half hour • Tells time to the nearest 5 minutes • Computes simple conversions among units of time (minutes in an hour, half hour, quarter hour) • Connects money with place value 	<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Identifies the value of a collection of coins to \$1.00 (without picture of coins) • Adds money with regrouping • Identifies the value of a collection of coins and bills to \$10.00 by "counting on" (with picture of money) • Finds equivalent combinations of coins with the same value • Combines a collection of coins and identifies the correct notation • Makes change to \$1.00 by "counting on" or subtracting • Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only) • Computes 1 operation on addition or subtraction real-world problems involving money up to \$5.00 • Selects and uses the appropriate type and size of unit in customary system (length) • Measures length with non-standard units • Measures length with customary measures to the half-inch mark • Uses a variety of non-standard units to measure the same length • Determines more capacity or less capacity • Identifies the correct time, given the words, and vice versa • Determines elapsed clock time • Determines elapsed time under 1 hour or to the hour • Determines elapsed time involving whole hours, whole days, whole years • Tells time to the nearest 5 minutes • Computes simple conversions among units of time (days, weeks)
<p>Geometric Measurement</p>	<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Determines the area of irregular shapes by counting square units 	<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Determines the perimeter of a figure where all sides are labeled • Determines the area of irregular shapes by counting square units
<p>Represent and Interpret Data</p> <ul style="list-style-type: none"> • Reads a chart or table - numbers • Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) • Displays data appropriately - bar graph - scale is 1 to 1 • Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) • Compares data from simple graphs (e.g., largest, smallest, most often, least often) 	<p>Represent and Interpret Data</p> <ul style="list-style-type: none"> • Reads a chart or table - numbers • Interprets simple graphs or tables • Interprets data using tally charts • Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) • Solves simple problems based on data from pictographs • Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) • Reads a simple bar graph - numbers (e.g., how many) • Solves simple problems based on data from bar graphs 	<p>Represent and Interpret Data</p> <ul style="list-style-type: none"> • Solves simple problems based on data from bar graphs • Reads a simple bar graph - numbers (e.g., how many) • Interprets a simple bar graph - calculation required • Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) • Reads and interprets data from a bar graph • Interprets simple graphs or tables • Reads and interprets data from a pictograph • Solves simple problems based on data from pictographs

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 161 - 170	Skills and Concepts to Develop (50% Probability*) 171 - 180	Skills and Concepts to Introduce (27% Probability*) 181 - 190
Represent and Interpret Data	Represent and Interpret Data	Represent and Interpret Data
	<ul style="list-style-type: none"> Compares data from simple graphs (e.g., largest, smallest, most often, least often) 	
<i>New Vocabulary:</i> dollar, longest, shortest	<i>New Vocabulary:</i> fewer, morning, taller	<i>New Vocabulary:</i> changed, clock, estimation, half past, how much time, left over, lowest, millimeter, noon, o'clock, pennies, quarter past, quarter to, what time
<i>New Signs and Symbols:</i> = is equal to, : used with time	<i>New Signs and Symbols:</i> a.m., ¢ cent sign, cm centimeter/centimetre, \$ dollar sign, p.m.	<i>New Signs and Symbols:</i> in. inch, : used with time, : used with time

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 171 - 180	Skills and Concepts to Develop (50% Probability*) 181 - 190	Skills and Concepts to Introduce (27% Probability*) 191 - 200
<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> Identifies the value of a collection of coins and bills to \$10.00 by "counting on" (with picture of money) Identifies the value of a collection of coins to \$1.00 (with pictures of coins) Estimates and measures length of an object to the nearest centimeter using a picture of a ruler Measures length with customary measures to the inch mark Tells time to the nearest hour Tells time to the nearest half hour Tells time to the nearest 5 minutes Computes simple conversions among units of time (minutes in an hour, half hour, quarter hour) Connects money with place value 	<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> Identifies the value of a collection of coins to \$1.00 (without picture of coins) Adds money with regrouping Identifies the value of a collection of coins and bills to \$10.00 by "counting on" (with picture of money) Finds equivalent combinations of coins with the same value Combines a collection of coins and identifies the correct notation Makes change to \$1.00 by "counting on" or subtracting Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only) Computes 1 operation on addition or subtraction real-world problems involving money up to \$5.00 Selects and uses the appropriate type and size of unit in customary system (length) Measures length with non-standard units Measures length with customary measures to the half-inch mark Uses a variety of non-standard units to measure the same length Determines more capacity or less capacity Identifies the correct time, given the words, and vice versa Determines elapsed clock time Determines elapsed time under 1 hour or to the hour Determines elapsed time involving whole hours, whole days, whole years Tells time to the nearest 5 minutes Computes simple conversions among units of time (days, weeks) 	<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> Selects and uses the appropriate type and size of unit in customary system (length) Measures length with non-standard units Computes basic operations with units of weight/mass Converts between cups and pints Converts between cups, pints, and quarts Identifies the correct time, given the words, and vice versa Determines elapsed clock time Identifies the value of a collection of coins to \$1.00 (without picture of coins) Adds money with regrouping Identifies the value of a collection of coins and bills to \$10.00 by "counting on" (without picture of money) Finds equivalent combinations of coins with the same value Makes change to \$1.00 by "counting on" or subtracting Solves real-world problems involving decimals (not money) using addition and subtraction Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only) Computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only) Computes half price (multiplication/division) Computes with dollars and cents up to and including \$5.00 and converts to decimals (multiplication/division) Computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division) Tells time to the nearest quarter hour Determines elapsed time involving whole hours, whole days, whole years Tells time to the nearest 1 minute Computes simple conversions among units of time (minutes, hours) Solves simple problems involving elapsed time, with the conversion of hours Solves simple problems involving miles/kilometers per hour
<p>Geometric Measurement</p> <ul style="list-style-type: none"> Determines the area of irregular shapes by counting square units 	<p>Geometric Measurement</p> <ul style="list-style-type: none"> Determines the perimeter of a figure where all sides are labeled Determines the area of irregular shapes by counting square units 	<p>Geometric Measurement</p> <ul style="list-style-type: none"> Determines the perimeter of a figure where all sides are labeled Solves simple problems involving the perimeter of squares, rectangles, or triangles Estimates the area of rectangles using square units Determines the perimeter of a figure where some sides are labeled

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 171 - 180	Skills and Concepts to Develop (50% Probability*) 181 - 190	Skills and Concepts to Introduce (27% Probability*) 191 - 200
<p>Represent and Interpret Data</p> <ul style="list-style-type: none"> • Reads a chart or table - numbers • Interprets simple graphs or tables • Interprets data using tally charts • Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) • Solves simple problems based on data from pictographs • Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) • Reads a simple bar graph - numbers (e.g., how many) • Solves simple problems based on data from bar graphs • Compares data from simple graphs (e.g., largest, smallest, most often, least often) 	<p>Represent and Interpret Data</p> <ul style="list-style-type: none"> • Solves simple problems based on data from bar graphs • Reads a simple bar graph - numbers (e.g., how many) • Interprets a simple bar graph - calculation required • Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) • Reads and interprets data from a bar graph • Interprets simple graphs or tables • Reads and interprets data from a pictograph • Solves simple problems based on data from pictographs 	<p>Represent and Interpret Data</p> <ul style="list-style-type: none"> • Reads and interprets data from a bar graph • Interprets a simple bar graph - calculation required • Reads and interprets dual bar graphs • Draws conclusions from data - tally charts or frequency tables • Reads and interprets data from a pictograph • Interprets a pictograph - calculation required
<p><i>New Vocabulary:</i> fewer, morning, taller</p>	<p><i>New Vocabulary:</i> changed, clock, estimation, half past, how much time, left over, lowest, millimeter, noon, o'clock, pennies, quarter past, quarter to, what time</p>	<p><i>New Vocabulary:</i> decade, deposit, longer, miles per hour</p>
<p><i>New Signs and Symbols:</i> a.m., ¢ cent sign, cm centimeter/centimetre, \$ dollar sign, p.m.</p>	<p><i>New Signs and Symbols:</i> in. inch, : used with time, : used with time</p>	<p><i>New Signs and Symbols:</i> °F degrees Fahrenheit, ft feet, g gram, " inches, lb pound, m meter/metre, min minute, yd yard</p>

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 181 - 190	Skills and Concepts to Develop (50% Probability*) 191 - 200	Skills and Concepts to Introduce (27% Probability*) 201 - 210
<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> Identifies the value of a collection of coins to \$1.00 (without picture of coins) Adds money with regrouping Identifies the value of a collection of coins and bills to \$10.00 by "counting on" (with picture of money) Finds equivalent combinations of coins with the same value Combines a collection of coins and identifies the correct notation Makes change to \$1.00 by "counting on" or subtracting Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only) Computes 1 operation on addition or subtraction real-world problems involving money up to \$5.00 Selects and uses the appropriate type and size of unit in customary system (length) Measures length with non-standard units Measures length with customary measures to the half-inch mark Uses a variety of non-standard units to measure the same length Determines more capacity or less capacity Identifies the correct time, given the words, and vice versa Determines elapsed clock time Determines elapsed time under 1 hour or to the hour Determines elapsed time involving whole hours, whole days, whole years Tells time to the nearest 5 minutes Computes simple conversions among units of time (days, weeks) 	<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> Selects and uses the appropriate type and size of unit in customary system (length) Measures length with non-standard units Computes basic operations with units of weight/mass Converts between cups and pints Converts between cups, pints, and quarts Identifies the correct time, given the words, and vice versa Determines elapsed clock time Identifies the value of a collection of coins to \$1.00 (without picture of coins) Adds money with regrouping Identifies the value of a collection of coins and bills to \$10.00 by "counting on" (without picture of money) Finds equivalent combinations of coins with the same value Makes change to \$1.00 by "counting on" or subtracting Solves real-world problems involving decimals (not money) using addition and subtraction Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only) Computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only) Computes half price (multiplication/division) Computes with dollars and cents up to and including \$5.00 and converts to decimals (multiplication/division) Computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division) Tells time to the nearest quarter hour Determines elapsed time involving whole hours, whole days, whole years Tells time to the nearest 1 minute Computes simple conversions among units of time (minutes, hours) Solves simple problems involving elapsed time, with the conversion of hours Solves simple problems involving miles/kilometers per hour 	<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> Converts between cups and pints Computes the value of multiple bills and coins (addition/subtraction only) Computes with dollars and cents up to and including \$5.00 and converts to decimals (multiplication/division) Computes addition and subtraction on multiple-step real-world problems involving money Computes money problems with multiple operations (addition/subtraction only) Computes addition, subtraction, multiplication, and division on multiple-step, real-world problems involving money Uses the appropriate unit of measure for length Knows the approximate size of a yard Measures length to the nearest centimeter Converts between inches and feet Knows the approximate size of a pound Knows the approximate size of a gram Converts between cups, pints, and quarts Computes simple conversions among units of time (hours, days) Computes more difficult conversions among units of time Applies dimensional analysis to simple real-world problems (time) Solves simple problems involving elapsed time, with the conversion of hours Solves simple problems involving miles per gallon Solves simple problems involving miles/kilometers per hour
<p>Geometric Measurement</p> <ul style="list-style-type: none"> Determines the perimeter of a figure where all sides are labeled Determines the area of irregular shapes by counting square units 	<p>Geometric Measurement</p> <ul style="list-style-type: none"> Determines the perimeter of a figure where all sides are labeled Solves simple problems involving the perimeter of squares, rectangles, or triangles Estimates the area of rectangles using square units Determines the perimeter of a figure where some sides are labeled 	<p>Geometric Measurement</p> <ul style="list-style-type: none"> Determines the area of irregular shapes with partial square units Identifies situations where it is appropriate to calculate area Estimates the area of rectangles using square units Determines the perimeter of a figure where some sides are labeled

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 181 - 190	Skills and Concepts to Develop (50% Probability*) 191 - 200	Skills and Concepts to Introduce (27% Probability*) 201 - 210
Geometric Measurement	Geometric Measurement	Geometric Measurement <ul style="list-style-type: none"> • Uses basic indirect methods to estimate measurements (grids for area of irregular figures) • Estimates and finds volume of a figure using cubic units
Represent and Interpret Data <ul style="list-style-type: none"> • Solves simple problems based on data from bar graphs • Reads a simple bar graph - numbers (e.g., how many) • Interprets a simple bar graph - calculation required • Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) • Reads and interprets data from a bar graph • Interprets simple graphs or tables • Reads and interprets data from a pictograph • Solves simple problems based on data from pictographs 	Represent and Interpret Data <ul style="list-style-type: none"> • Reads and interprets data from a bar graph • Interprets a simple bar graph - calculation required • Reads and interprets dual bar graphs • Draws conclusions from data - tally charts or frequency tables • Reads and interprets data from a pictograph • Interprets a pictograph - calculation required 	Represent and Interpret Data <ul style="list-style-type: none"> • Organizes data to create simple bar graphs • Solves problems using dual bar graphs • Draws conclusions from data - bar graphs • Solves problems using pictographs • Solves problems using bar graphs
<i>New Vocabulary:</i> changed, clock, estimation, half past, how much time, left over, lowest, millimeter, noon, o'clock, pennies, quarter past, quarter to, what time	<i>New Vocabulary:</i> decade, deposit, longer, miles per hour <i>New Signs and Symbols:</i> °F degrees Fahrenheit, ft feet, g gram, " inches, lb pound, m meter/metre, min minute, yd yard	<i>New Vocabulary:</i> bar graph, cubic centimeter, cubic unit, larger <i>New Signs and Symbols:</i> variable
<i>New Signs and Symbols:</i> in. inch, : used with time, : used with time		

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 191 - 200	Skills and Concepts to Develop (50% Probability*) 201 - 210	Skills and Concepts to Introduce (27% Probability*) 211 - 220
<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Selects and uses the appropriate type and size of unit in customary system (length) • Measures length with non-standard units • Computes basic operations with units of weight/mass • Converts between cups and pints • Converts between cups, pints, and quarts • Identifies the correct time, given the words, and vice versa • Determines elapsed clock time • Identifies the value of a collection of coins to \$1.00 (without picture of coins) • Adds money with regrouping • Identifies the value of a collection of coins and bills to \$10.00 by "counting on" (without picture of money) • Finds equivalent combinations of coins with the same value • Makes change to \$1.00 by "counting on" or subtracting • Solves real-world problems involving decimals (not money) using addition and subtraction • Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only) • Computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only) • Computes half price (multiplication/division) • Computes with dollars and cents up to and including \$5.00 and converts to decimals (multiplication/division) • Computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division) • Tells time to the nearest quarter hour • Determines elapsed time involving whole hours, whole days, whole years • Tells time to the nearest 1 minute • Computes simple conversions among units of time (minutes, hours) • Solves simple problems involving elapsed time, with the conversion of hours • Solves simple problems involving miles/kilometers per hour 	<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Converts between cups and pints • Computes the value of multiple bills and coins (addition/subtraction only) • Computes with dollars and cents up to and including \$5.00 and converts to decimals (multiplication/division) • Computes addition and subtraction on multiple-step real-world problems involving money • Computes money problems with multiple operations (addition/subtraction only) • Computes addition, subtraction, multiplication, and division on multiple-step, real-world problems involving money • Uses the appropriate unit of measure for length • Knows the approximate size of a yard • Measures length to the nearest centimeter • Converts between inches and feet • Knows the approximate size of a pound • Knows the approximate size of a gram • Converts between cups, pints, and quarts • Computes simple conversions among units of time (hours, days) • Computes more difficult conversions among units of time • Applies dimensional analysis to simple real-world problems (time) • Solves simple problems involving elapsed time, with the conversion of hours • Solves simple problems involving miles per gallon • Solves simple problems involving miles/kilometers per hour 	<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Converts between cups, pints, quarts, and gallons • Apply dimensional analysis to simple real-world problems (capacity) • Relates years, decades, centuries, and millenniums • Applies dimensional analysis to simple real-world problems (time) • Solves difficult problems involving elapsed time, with the conversion of hours • Solves simple problems involving miles per gallon • Computes more difficult conversions among units of time • Computes the value of multiple bills and coins (addition/subtraction only) • Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only) • Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division) • Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division) • Computes addition and subtraction on multiple-step real-world problems involving money • Computes addition, subtraction, multiplication, and division on multiple-step, real-world problems involving money • Uses the appropriate unit of measure for length • Knows the approximate size of a millimeter • Converts between inches and feet • Converts between inches, feet, and yards • Selects and uses the appropriate type and size of unit in metric system (mass) • Solves simple problems involving measurement of weight
<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Determines the perimeter of a figure where all sides are labeled • Solves simple problems involving the perimeter of squares, rectangles, or triangles • Estimates the area of rectangles using square units • Determines the perimeter of a figure where some sides are labeled 	<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Determines the area of irregular shapes with partial square units • Identifies situations where it is appropriate to calculate area • Estimates the area of rectangles using square units • Determines the perimeter of a figure where some sides are labeled 	<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Measures angles using a protractor • Determines the perimeter of a figure using non-standard units • Solves problems involving the perimeter of squares, rectangles, or triangles • Finds the perimeter of a polygon using a formula

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 191 - 200	Skills and Concepts to Develop (50% Probability*) 201 - 210	Skills and Concepts to Introduce (27% Probability*) 211 - 220
Geometric Measurement	Geometric Measurement	Geometric Measurement
	<ul style="list-style-type: none"> • Uses basic indirect methods to estimate measurements (grids for area of irregular figures) • Estimates and finds volume of a figure using cubic units 	<ul style="list-style-type: none"> • Describes the change in perimeter when dimensions of an object are altered • Determines the area of irregular shapes with partial square units • Estimates and finds volume of a figure using cubic units • Identifies properties of angles
Represent and Interpret Data	Represent and Interpret Data	Represent and Interpret Data
<ul style="list-style-type: none"> • Reads and interprets data from a bar graph • Interprets a simple bar graph - calculation required • Reads and interprets dual bar graphs • Draws conclusions from data - tally charts or frequency tables • Reads and interprets data from a pictograph • Interprets a pictograph - calculation required 	<ul style="list-style-type: none"> • Organizes data to create simple bar graphs • Solves problems using dual bar graphs • Draws conclusions from data - bar graphs • Solves problems using pictographs • Solves problems using bar graphs 	<ul style="list-style-type: none"> • Solves problems using pictographs • Solves problems using bar graphs • Reads and interprets data in line plots
<i>New Vocabulary:</i> decade, deposit, longer, miles per hour	<i>New Vocabulary:</i> bar graph, cubic centimeter, cubic unit, larger	<i>New Vocabulary:</i> century, coin, how long, line plot, union
<i>New Signs and Symbols:</i> °F degrees Fahrenheit, ft feet, g gram, " inches, lb pound, m meter/metre, min minute, yd yard	<i>New Signs and Symbols:</i> variable	<i>New Signs and Symbols:</i> \$ dollar sign, hr hour, ↓ measurement span down, ← measurement span left, → measurement span right, ↑ measurement span up

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 201 - 210	Skills and Concepts to Develop (50% Probability*) 211 - 220	Skills and Concepts to Introduce (27% Probability*) 221 - 230
<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Converts between cups and pints • Computes the value of multiple bills and coins (addition/subtraction only) • Computes with dollars and cents up to and including \$5.00 and converts to decimals (multiplication/division) • Computes addition and subtraction on multiple-step real-world problems involving money • Computes money problems with multiple operations (addition/subtraction only) • Computes addition, subtraction, multiplication, and division on multiple-step, real-world problems involving money • Uses the appropriate unit of measure for length • Knows the approximate size of a yard • Measures length to the nearest centimeter • Converts between inches and feet • Knows the approximate size of a pound • Knows the approximate size of a gram • Converts between cups, pints, and quarts • Computes simple conversions among units of time (hours, days) • Computes more difficult conversions among units of time • Applies dimensional analysis to simple real-world problems (time) • Solves simple problems involving elapsed time, with the conversion of hours • Solves simple problems involving miles per gallon • Solves simple problems involving miles/kilometers per hour 	<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Converts between cups, pints, quarts, and gallons • Apply dimensional analysis to simple real-world problems (capacity) • Relates years, decades, centuries, and millenniums • Applies dimensional analysis to simple real-world problems (time) • Solves difficult problems involving elapsed time, with the conversion of hours • Solves simple problems involving miles per gallon • Computes more difficult conversions among units of time • Computes the value of multiple bills and coins (addition/subtraction only) • Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only) • Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division) • Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division) • Computes addition and subtraction on multiple-step real-world problems involving money • Computes addition, subtraction, multiplication, and division on multiple-step, real-world problems involving money • Uses the appropriate unit of measure for length • Knows the approximate size of a millimeter • Converts between inches and feet • Converts between inches, feet, and yards • Selects and uses the appropriate type and size of unit in metric system (mass) • Solves simple problems involving measurement of weight 	<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Apply dimensional analysis to simple real-world problems (capacity) • Solves real-world problems involving rate of pay • Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division) • Computes the value of multiple bills and coins (multiplication/division) • Measures length to the nearest millimeter • Converts between inches, feet, and yards • Converts between millimeters, centimeters, meters, and kilometers • Solves problems involving length in the customary system and converts to larger or smaller units • Converts between ounces and pounds • Converts between cups, pints, quarts, and gallons • Converts within the metric system • Relates years, decades, centuries, and millenniums • Computes 2-step conversions between units of time • Applies dimensional analysis to simple real-world problems (time) • Solves difficult problems involving elapsed time, with the conversion of hours • Solves complex problems involving miles/kilometers per hour
<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Determines the area of irregular shapes with partial square units • Identifies situations where it is appropriate to calculate area • Estimates the area of rectangles using square units • Determines the perimeter of a figure where some sides are labeled • Uses basic indirect methods to estimate measurements (grids for area of irregular figures) • Estimates and finds volume of a figure using cubic units 	<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Measures angles using a protractor • Determines the perimeter of a figure using non-standard units • Solves problems involving the perimeter of squares, rectangles, or triangles • Finds the perimeter of a polygon using a formula • Describes the change in perimeter when dimensions of an object are altered • Determines the area of irregular shapes with partial square units • Estimates and finds volume of a figure using cubic units • Identifies properties of angles 	<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Calculates the volume of rectangular solids • Determines the perimeter of a figure using non-standard units • Solves problems involving the perimeter of squares, rectangles, or triangles • Solves problems involving the perimeter of irregular or complex shapes • Describes the change in perimeter when dimensions of an object are altered • Calculates the area of a rectangle, given labeled sides (customary units) • Determines the length or width of a rectangle, given the area (metric units) • Determines the area of irregular shapes (customary units)

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Skills and concepts to Enhance (73% Probability*) 201 - 210	Skills and Concepts to Develop (50% Probability*) 211 - 220	Skills and Concepts to Introduce (27% Probability*) 221 - 230
Geometric Measurement	Geometric Measurement	Geometric Measurement • Calculates area and perimeter of a rectangle (customary units)
Represent and Interpret Data • Organizes data to create simple bar graphs • Solves problems using dual bar graphs • Draws conclusions from data - bar graphs • Solves problems using pictographs • Solves problems using bar graphs	Represent and Interpret Data • Solves problems using pictographs • Solves problems using bar graphs • Reads and interprets data in line plots	Represent and Interpret Data • Determines appropriate intervals and/or scale for a bar graph
<i>New Vocabulary:</i> bar graph, cubic centimeter, cubic unit, larger	<i>New Vocabulary:</i> century, coin, how long, line plot, union	<i>New Vocabulary:</i> cubic meter, cubic millimeter
<i>New Signs and Symbols:</i> variable	<i>New Signs and Symbols:</i> \$ dollar sign, hr hour, ↓ measurement span down, ← measurement span left, → measurement span right, ↑ measurement span up	<i>New Signs and Symbols:</i> h height, l length, ↔ line symbol, mL milliliter/millilitre, mm millimeter/millimetre, segment overbar, V volume, w width

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 211 - 220	Skills and Concepts to Develop (50% Probability*) 221 - 230	Skills and Concepts to Introduce (27% Probability*) 231 - 240
<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Converts between cups, pints, quarts, and gallons • Apply dimensional analysis to simple real-world problems (capacity) • Relates years, decades, centuries, and millenniums • Applies dimensional analysis to simple real-world problems (time) • Solves difficult problems involving elapsed time, with the conversion of hours • Solves simple problems involving miles per gallon • Computes more difficult conversions among units of time • Computes the value of multiple bills and coins (addition/subtraction only) • Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only) • Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division) • Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division) • Computes addition and subtraction on multiple-step real-world problems involving money • Computes addition, subtraction, multiplication, and division on multiple-step, real-world problems involving money • Uses the appropriate unit of measure for length • Knows the approximate size of a millimeter • Converts between inches and feet • Converts between inches, feet, and yards • Selects and uses the appropriate type and size of unit in metric system (mass) • Solves simple problems involving measurement of weight 	<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Apply dimensional analysis to simple real-world problems (capacity) • Solves real-world problems involving rate of pay • Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division) • Computes the value of multiple bills and coins (multiplication/division) • Measures length to the nearest millimeter • Converts between inches, feet, and yards • Converts between millimeters, centimeters, meters, and kilometers • Solves problems involving length in the customary system and converts to larger or smaller units • Converts between ounces and pounds • Converts between cups, pints, quarts, and gallons • Converts within the metric system • Relates years, decades, centuries, and millenniums • Computes 2-step conversions between units of time • Applies dimensional analysis to simple real-world problems (time) • Solves difficult problems involving elapsed time, with the conversion of hours • Solves complex problems involving miles/kilometers per hour 	<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Apply dimensional analysis to simple real-world problems (capacity) • Solves real-world problems involving rate of pay • Measures length to the nearest millimeter • Converts between millimeters, centimeters, meters, and kilometers • Apply dimensional analysis to simple real-world problems (length) • Solves problems involving length in the customary system and converts to larger or smaller units • Converts between grams and kilograms • Converts within the metric system • Solves problems involving capacity in the metric system and converts to larger or smaller units
<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Measures angles using a protractor • Determines the perimeter of a figure using non-standard units • Solves problems involving the perimeter of squares, rectangles, or triangles • Finds the perimeter of a polygon using a formula • Describes the change in perimeter when dimensions of an object are altered • Determines the area of irregular shapes with partial square units • Estimates and finds volume of a figure using cubic units • Identifies properties of angles 	<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Calculates the volume of rectangular solids • Determines the perimeter of a figure using non-standard units • Solves problems involving the perimeter of squares, rectangles, or triangles • Solves problems involving the perimeter of irregular or complex shapes • Describes the change in perimeter when dimensions of an object are altered • Calculates the area of a rectangle, given labeled sides (customary units) • Determines the length or width of a rectangle, given the area (metric units) • Determines the area of irregular shapes (customary units) 	<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Calculates the area of a rectangle, given labeled sides (customary units) • Solves problems involving the perimeter of irregular or complex shapes • Describes the change in perimeter when dimensions of an object are altered • Determines the area of a triangle drawn on a grid • Determines the length or width of a rectangle, given the area (metric units) • Determines the area of irregular shapes (customary units) • Calculates the volume of rectangular solids • Calculates the length, width, or height of a rectangular prism, given the area (customary units)

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Skills and concepts to Enhance (73% Probability*) 211 - 220	Skills and Concepts to Develop (50% Probability*) 221 - 230	Skills and Concepts to Introduce (27% Probability*) 231 - 240
Geometric Measurement	Geometric Measurement • Calculates area and perimeter of a rectangle (customary units)	Geometric Measurement • Identifies the formula for perimeter with a variable
Represent and Interpret Data • Solves problems using pictographs • Solves problems using bar graphs • Reads and interprets data in line plots	Represent and Interpret Data • Determines appropriate intervals and/or scale for a bar graph	Represent and Interpret Data • Determines appropriate intervals and/or scale for a bar graph • Interprets data given in horizontal and vertical bar graphs to solve problems
<i>New Vocabulary:</i> century, coin, how long, line plot, union	<i>New Vocabulary:</i> cubic meter, cubic millimeter	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> \$ dollar sign, hr hour, ↓ measurement span down, ← measurement span left, → measurement span right, ↑ measurement span up	<i>New Signs and Symbols:</i> h height, l length, ↔ line symbol, mL milliliter/millilitre, mm millimeter/millimetre, segment overbar, V volume, w width	<i>New Signs and Symbols:</i> () order of operations, + addition, kg kilogram, P perimeter

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Skills and concepts to Enhance (73% Probability*) 221 - 230	Skills and Concepts to Develop (50% Probability*) 231 - 240	Skills and Concepts to Introduce (27% Probability*) 241 - 250
<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Apply dimensional analysis to simple real-world problems (capacity) • Solves real-world problems involving rate of pay • Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division) • Computes the value of multiple bills and coins (multiplication/division) • Measures length to the nearest millimeter • Converts between inches, feet, and yards • Converts between millimeters, centimeters, meters, and kilometers • Solves problems involving length in the customary system and converts to larger or smaller units • Converts between ounces and pounds • Converts between cups, pints, quarts, and gallons • Converts within the metric system • Relates years, decades, centuries, and millenniums • Computes 2-step conversions between units of time • Applies dimensional analysis to simple real-world problems (time) • Solves difficult problems involving elapsed time, with the conversion of hours • Solves complex problems involving miles/kilometers per hour 	<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Apply dimensional analysis to simple real-world problems (capacity) • Solves real-world problems involving rate of pay • Measures length to the nearest millimeter • Converts between millimeters, centimeters, meters, and kilometers • Apply dimensional analysis to simple real-world problems (length) • Solves problems involving length in the customary system and converts to larger or smaller units • Converts between grams and kilograms • Converts within the metric system • Solves problems involving capacity in the metric system and converts to larger or smaller units 	<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Apply dimensional analysis to simple real-world problems (length) • Solves problems involving capacity in the metric system and converts to larger or smaller units • Solves problems involving area of a rectangle and converts to larger or smaller units (customary)
<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Calculates the volume of rectangular solids • Determines the perimeter of a figure using non-standard units • Solves problems involving the perimeter of squares, rectangles, or triangles • Solves problems involving the perimeter of irregular or complex shapes • Describes the change in perimeter when dimensions of an object are altered • Calculates the area of a rectangle, given labeled sides (customary units) • Determines the length or width of a rectangle, given the area (metric units) • Determines the area of irregular shapes (customary units) • Calculates area and perimeter of a rectangle (customary units) 	<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Calculates the area of a rectangle, given labeled sides (customary units) • Solves problems involving the perimeter of irregular or complex shapes • Describes the change in perimeter when dimensions of an object are altered • Determines the area of a triangle drawn on a grid • Determines the length or width of a rectangle, given the area (metric units) • Determines the area of irregular shapes (customary units) • Calculates the volume of rectangular solids • Calculates the length, width, or height of a rectangular prism, given the area (customary units) • Identifies the formula for perimeter with a variable 	<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Determines the area of irregular shapes (customary units) • Calculates the area of irregular shapes (metric units) • Solves complex problems involving inscribed figures
<p>Represent and Interpret Data</p> <ul style="list-style-type: none"> • Determines appropriate intervals and/or scale for a bar graph 	<p>Represent and Interpret Data</p> <ul style="list-style-type: none"> • Determines appropriate intervals and/or scale for a bar graph • Interprets data given in horizontal and vertical bar graphs to solve problems 	<p>Represent and Interpret Data</p>

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Skills and concepts to Enhance (73% Probability*) 221 - 230	Skills and Concepts to Develop (50% Probability*) 231 - 240	Skills and Concepts to Introduce (27% Probability*) 241 - 250
<i>New Vocabulary:</i> cubic meter, cubic millimeter	<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> h height, l length, ↔ line symbol, mL milliliter/millilitre, mm millimeter/millimetre, segment overbar, V volume, w width	<i>New Signs and Symbols:</i> () order of operations, + addition, kg kilogram, P perimeter	<i>New Signs and Symbols:</i> × multiplication

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Skills and concepts to Enhance (73% Probability*) 231 - 240	Skills and Concepts to Develop (50% Probability*) 241 - 250	Skills and Concepts to Introduce (27% Probability*) > 250
<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Apply dimensional analysis to simple real-world problems (capacity) • Solves real-world problems involving rate of pay • Measures length to the nearest millimeter • Converts between millimeters, centimeters, meters, and kilometers • Apply dimensional analysis to simple real-world problems (length) • Solves problems involving length in the customary system and converts to larger or smaller units • Converts between grams and kilograms • Converts within the metric system • Solves problems involving capacity in the metric system and converts to larger or smaller units 	<p>Solve Problems Involving Measurement & Conversion</p> <ul style="list-style-type: none"> • Apply dimensional analysis to simple real-world problems (length) • Solves problems involving capacity in the metric system and converts to larger or smaller units • Solves problems involving area of a rectangle and converts to larger or smaller units (customary) 	<p>Solve Problems Involving Measurement & Conversion</p>
<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Calculates the area of a rectangle, given labeled sides (customary units) • Solves problems involving the perimeter of irregular or complex shapes • Describes the change in perimeter when dimensions of an object are altered • Determines the area of a triangle drawn on a grid • Determines the length or width of a rectangle, given the area (metric units) • Determines the area of irregular shapes (customary units) • Calculates the volume of rectangular solids • Calculates the length, width, or height of a rectangular prism, given the area (customary units) • Identifies the formula for perimeter with a variable 	<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Determines the area of irregular shapes (customary units) • Calculates the area of irregular shapes (metric units) • Solves complex problems involving inscribed figures 	<p>Geometric Measurement</p> <ul style="list-style-type: none"> • Calculates the length of one side of a cube, given the volume (customary units) • Solves complex problems involving inscribed figures • Solves problems comparing area to perimeter (analysis)
<p>Represent and Interpret Data</p> <ul style="list-style-type: none"> • Determines appropriate intervals and/or scale for a bar graph • Interprets data given in horizontal and vertical bar graphs to solve problems 	<p>Represent and Interpret Data</p>	<p>Represent and Interpret Data</p>
<p><i>New Vocabulary:</i> None</p>	<p><i>New Vocabulary:</i> None</p>	<p><i>New Vocabulary:</i> None</p>
<p><i>New Signs and Symbols:</i> () order of operations, + addition, kg kilogram, P perimeter</p>	<p><i>New Signs and Symbols:</i> x multiplication</p>	<p><i>New Signs and Symbols:</i> None</p>

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Skills and concepts to Enhance (73% Probability*) 241 - 250	Skills and Concepts to Develop (50% Probability*) > 250
Solve Problems Involving Measurement & Conversion	Solve Problems Involving Measurement & Conversion
<ul style="list-style-type: none"> • Apply dimensional analysis to simple real-world problems (length) • Solves problems involving capacity in the metric system and converts to larger or smaller units • Solves problems involving area of a rectangle and converts to larger or smaller units (customary) 	
Geometric Measurement	Geometric Measurement
<ul style="list-style-type: none"> • Determines the area of irregular shapes (customary units) • Calculates the area of irregular shapes (metric units) • Solves complex problems involving inscribed figures 	<ul style="list-style-type: none"> • Calculates the length of one side of a cube, given the volume (customary units) • Solves complex problems involving inscribed figures • Solves problems comparing area to perimeter (analysis)
Represent and Interpret Data	Represent and Interpret Data
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> x multiplication	<i>New Signs and Symbols:</i> None

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Skills and Concepts to Develop (50% Probability*) < 161	Skills and Concepts to Introduce (27% Probability*) 161 - 170
Reason with Shapes and Their Attributes	Reason with Shapes and Their Attributes
<ul style="list-style-type: none"> • Identifies and names a circle • Identifies spatial sense concepts (e.g., outside, inside, between, over, under, above, below, behind, in front, middle) 	<ul style="list-style-type: none"> • Identifies and names a cone • Compares open and closed figures • Sorts solid figures and objects according to attributes • Identifies position of shapes (e.g., inside, outside, between) • Identifies and names a triangle • Identifies and names a square • Identifies and names a rectangle • Identifies sides and vertices of polygons
Identify Lines & Angles and Graph Points	Identify Lines & Angles and Graph Points
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> corner, flat
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> None

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Skills and concepts to Enhance (73% Probability*) < 161	Skills and Concepts to Develop (50% Probability*) 161 - 170	Skills and Concepts to Introduce (27% Probability*) 171 - 180
<p>Reason with Shapes and Their Attributes</p> <ul style="list-style-type: none"> Identifies and names a circle Identifies spatial sense concepts (e.g., outside, inside, between, over, under, above, below, behind, in front, middle) 	<p>Reason with Shapes and Their Attributes</p> <ul style="list-style-type: none"> Identifies and names a cone Compares open and closed figures Sorts solid figures and objects according to attributes Identifies position of shapes (e.g., inside, outside, between) Identifies and names a triangle Identifies and names a square Identifies and names a rectangle Identifies sides and vertices of polygons 	<p>Reason with Shapes and Their Attributes</p> <ul style="list-style-type: none"> Identifies and names a triangle Identifies and names a square Identifies and names a cube Recognizes geometric shapes in real-world objects
<p>Identify Lines & Angles and Graph Points</p>	<p>Identify Lines & Angles and Graph Points</p>	<p>Identify Lines & Angles and Graph Points</p>
<p><i>New Vocabulary:</i> None</p>	<p><i>New Vocabulary:</i> corner, flat</p>	<p><i>New Vocabulary:</i> ray</p>
<p><i>New Signs and Symbols:</i> None</p>	<p><i>New Signs and Symbols:</i> None</p>	<p><i>New Signs and Symbols:</i> None</p>

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Skills and concepts to Enhance (73% Probability*) 161 - 170	Skills and Concepts to Develop (50% Probability*) 171 - 180	Skills and Concepts to Introduce (27% Probability*) 181 - 190
<p>Reason with Shapes and Their Attributes</p> <ul style="list-style-type: none"> Identifies and names a cone Compares open and closed figures Sorts solid figures and objects according to attributes Identifies position of shapes (e.g., inside, outside, between) Identifies and names a triangle Identifies and names a square Identifies and names a rectangle Identifies sides and vertices of polygons 	<p>Reason with Shapes and Their Attributes</p> <ul style="list-style-type: none"> Identifies and names a triangle Identifies and names a square Identifies and names a cube Recognizes geometric shapes in real-world objects 	<p>Reason with Shapes and Their Attributes</p> <ul style="list-style-type: none"> Classifies polygons by sides and vertices Identifies and names a cube Identifies and names a sphere
<p>Identify Lines & Angles and Graph Points</p>	<p>Identify Lines & Angles and Graph Points</p>	<p>Identify Lines & Angles and Graph Points</p> <ul style="list-style-type: none"> Identifies plane figures with line symmetry Reads data in a line graph - no calculations
<p><i>New Vocabulary:</i> corner, flat</p>	<p><i>New Vocabulary:</i> ray</p>	<p><i>New Vocabulary:</i> fourths, symmetry</p>
<p><i>New Signs and Symbols:</i> None</p>	<p><i>New Signs and Symbols:</i> None</p>	<p><i>New Signs and Symbols:</i> None</p>

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Skills and concepts to Enhance (73% Probability*) 171 - 180	Skills and Concepts to Develop (50% Probability*) 181 - 190	Skills and Concepts to Introduce (27% Probability*) 191 - 200
<p>Reason with Shapes and Their Attributes</p> <ul style="list-style-type: none"> Identifies and names a triangle Identifies and names a square Identifies and names a cube Recognizes geometric shapes in real-world objects 	<p>Reason with Shapes and Their Attributes</p> <ul style="list-style-type: none"> Classifies polygons by sides and vertices Identifies and names a cube Identifies and names a sphere 	<p>Reason with Shapes and Their Attributes</p> <ul style="list-style-type: none"> Identifies corners (vertices) of cubes Identifies the number of faces on rectangular prisms Identifies and names a cylinder Identifies and names a sphere Sorts 2-D shapes and objects according to their attributes Creates a new shape by combining different shapes, or identifies the different shapes that were used to make the original shape
<p>Identify Lines & Angles and Graph Points</p>	<p>Identify Lines & Angles and Graph Points</p> <ul style="list-style-type: none"> Identifies plane figures with line symmetry Reads data in a line graph - no calculations 	<p>Identify Lines & Angles and Graph Points</p> <ul style="list-style-type: none"> Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph) Identifies lines Identifies parallel lines Uses models to compare angles relative to right angles Identifies right angles Identifies plane figures with line symmetry Identifies the number of lines of symmetry in plane figures Reads data in a line graph - no calculations
<p><i>New Vocabulary:</i> ray</p>	<p><i>New Vocabulary:</i> fourths, symmetry</p>	<p><i>New Vocabulary:</i> face, grid, intersect, kite, large, parallel, vertical line</p>
<p><i>New Signs and Symbols:</i> None</p>	<p><i>New Signs and Symbols:</i> None</p>	<p><i>New Signs and Symbols:</i> () ordered pair, • point</p>

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Skills and concepts to Enhance (73% Probability*) 181 - 190	Skills and Concepts to Develop (50% Probability*) 191 - 200	Skills and Concepts to Introduce (27% Probability*) 201 - 210
<p>Reason with Shapes and Their Attributes</p> <ul style="list-style-type: none"> Classifies polygons by sides and vertices Identifies and names a cube Identifies and names a sphere 	<p>Reason with Shapes and Their Attributes</p> <ul style="list-style-type: none"> Identifies corners (vertices) of cubes Identifies the number of faces on rectangular prisms Identifies and names a cylinder Identifies and names a sphere Sorts 2-D shapes and objects according to their attributes Creates a new shape by combining different shapes, or identifies the different shapes that were used to make the original shape 	<p>Reason with Shapes and Their Attributes</p> <ul style="list-style-type: none"> Identifies and names a parallelogram Identifies and names a trapezoid Classifies polygons by number of sides Classifies polygons by sides and angles Identifies corners (vertices) of cubes Classifies cubes by their properties (e.g., edges with equal lengths, faces with equal areas and congruent shapes, right angle corners) Identifies and names a cylinder
<p>Identify Lines & Angles and Graph Points</p> <ul style="list-style-type: none"> Identifies plane figures with line symmetry Reads data in a line graph - no calculations 	<p>Identify Lines & Angles and Graph Points</p> <ul style="list-style-type: none"> Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph) Identifies lines Identifies parallel lines Uses models to compare angles relative to right angles Identifies right angles Identifies plane figures with line symmetry Identifies the number of lines of symmetry in plane figures Reads data in a line graph - no calculations 	<p>Identify Lines & Angles and Graph Points</p> <ul style="list-style-type: none"> Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph) Graphs ordered pairs in the first quadrant Determines the distance between horizontal and vertical lines in the first quadrant of a rectangular coordinate system Determines the distance between points, following grid lines, in the first quadrant on a coordinate graph (as in city blocks) Locates the origin on a coordinate grid Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents Identifies parallel lines Uses models to compare angles relative to right angles Classifies plane figures by the number of lines of symmetry
<p><i>New Vocabulary:</i> fourths, symmetry</p>	<p><i>New Vocabulary:</i> face, grid, intersect, kite, large, parallel, vertical line</p>	<p><i>New Vocabulary:</i> coordinate point, edge, origin, parallel line, regular polygon, trapezoid</p>
<p><i>New Signs and Symbols:</i> None</p>	<p><i>New Signs and Symbols:</i> () ordered pair, • point</p>	<p><i>New Signs and Symbols:</i> ° degrees</p>

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 191 - 200	Skills and Concepts to Develop (50% Probability*) 201 - 210	Skills and Concepts to Introduce (27% Probability*) 211 - 220
Reason with Shapes and Their Attributes <ul style="list-style-type: none"> Identifies corners (vertices) of cubes Identifies the number of faces on rectangular prisms Identifies and names a cylinder Identifies and names a sphere Sorts 2-D shapes and objects according to their attributes Creates a new shape by combining different shapes, or identifies the different shapes that were used to make the original shape 	Reason with Shapes and Their Attributes <ul style="list-style-type: none"> Identifies and names a parallelogram Identifies and names a trapezoid Classifies polygons by number of sides Classifies polygons by sides and angles Identifies corners (vertices) of cubes Classifies cubes by their properties (e.g., edges with equal lengths, faces with equal areas and congruent shapes, right angle corners) Identifies and names a cylinder 	Reason with Shapes and Their Attributes <ul style="list-style-type: none"> Identifies and names a trapezoid Identifies and names a rhombus Identifies and names a quadrilateral Identifies corners (vertices) of cubes Identifies the number of edges on rectangular prisms Predicts and verifies the effects of combining or subdividing basic shapes
Identify Lines & Angles and Graph Points <ul style="list-style-type: none"> Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph) Identifies lines Identifies parallel lines Uses models to compare angles relative to right angles Identifies right angles Identifies plane figures with line symmetry Identifies the number of lines of symmetry in plane figures Reads data in a line graph - no calculations 	Identify Lines & Angles and Graph Points <ul style="list-style-type: none"> Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph) Graphs ordered pairs in the first quadrant Determines the distance between horizontal and vertical lines in the first quadrant of a rectangular coordinate system Determines the distance between points, following grid lines, in the first quadrant on a coordinate graph (as in city blocks) Locates the origin on a coordinate grid Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents Identifies parallel lines Uses models to compare angles relative to right angles Classifies plane figures by the number of lines of symmetry 	Identify Lines & Angles and Graph Points <ul style="list-style-type: none"> Determines the distance between horizontal and vertical lines in the first quadrant of a rectangular coordinate system Locates the origin on a coordinate grid Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents Identifies rays Identifies perpendicular lines Identifies acute angles Identifies obtuse angles Classifies polygons by type of angle
<i>New Vocabulary:</i> face, grid, intersect, kite, large, parallel, vertical line	<i>New Vocabulary:</i> coordinate point, edge, origin, parallel line, regular polygon, trapezoid	<i>New Vocabulary:</i> acute angle, congruent angle, obtuse angle, straight angle
<i>New Signs and Symbols:</i> () ordered pair, • point	<i>New Signs and Symbols:</i> ° degrees	<i>New Signs and Symbols:</i> ∠ angle, angle marker (arc)

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 201 - 210	Skills and Concepts to Develop (50% Probability*) 211 - 220	Skills and Concepts to Introduce (27% Probability*) 221 - 230
Reason with Shapes and Their Attributes <ul style="list-style-type: none"> Identifies and names a parallelogram Identifies and names a trapezoid Classifies polygons by number of sides Classifies polygons by sides and angles Identifies corners (vertices) of cubes Classifies cubes by their properties (e.g., edges with equal lengths, faces with equal areas and congruent shapes, right angle corners) Identifies and names a cylinder 	Reason with Shapes and Their Attributes <ul style="list-style-type: none"> Identifies and names a trapezoid Identifies and names a rhombus Identifies and names a quadrilateral Identifies corners (vertices) of cubes Identifies the number of edges on rectangular prisms Predicts and verifies the effects of combining or subdividing basic shapes 	Reason with Shapes and Their Attributes <ul style="list-style-type: none"> Identifies and names a rhombus Identifies and names a quadrilateral Compares polygons by properties Identifies properties of quadrilaterals Identifies the number of edges on rectangular prisms
Identify Lines & Angles and Graph Points <ul style="list-style-type: none"> Determines and names locations in the first quadrant on a labeled grid or coordinate system (e.g., map or graph) Graphs ordered pairs in the first quadrant Determines the distance between horizontal and vertical lines in the first quadrant of a rectangular coordinate system Determines the distance between points, following grid lines, in the first quadrant on a coordinate graph (as in city blocks) Locates the origin on a coordinate grid Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents Identifies parallel lines Uses models to compare angles relative to right angles Classifies plane figures by the number of lines of symmetry 	Identify Lines & Angles and Graph Points <ul style="list-style-type: none"> Determines the distance between horizontal and vertical lines in the first quadrant of a rectangular coordinate system Locates the origin on a coordinate grid Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents Identifies rays Identifies perpendicular lines Identifies acute angles Identifies obtuse angles Classifies polygons by type of angle 	Identify Lines & Angles and Graph Points <ul style="list-style-type: none"> Determines coordinates of geometric figures in the first quadrant Identifies rays Determines which lines are perpendicular (analysis) Identifies acute angles Classifies equilateral triangles Classifies polygons by type of angle
<i>New Vocabulary:</i> coordinate point, edge, origin, parallel line, regular polygon, trapezoid	<i>New Vocabulary:</i> acute angle, congruent angle, obtuse angle, straight angle	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> ° degrees	<i>New Signs and Symbols:</i> ∠ angle, angle marker (arc)	<i>New Signs and Symbols:</i> in. inch

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 211 - 220	Skills and Concepts to Develop (50% Probability*) 221 - 230	Skills and Concepts to Introduce (27% Probability*) 231 - 240
<p>Reason with Shapes and Their Attributes</p> <ul style="list-style-type: none"> Identifies and names a trapezoid Identifies and names a rhombus Identifies and names a quadrilateral Identifies corners (vertices) of cubes Identifies the number of edges on rectangular prisms Predicts and verifies the effects of combining or subdividing basic shapes 	<p>Reason with Shapes and Their Attributes</p> <ul style="list-style-type: none"> Identifies and names a rhombus Identifies and names a quadrilateral Compares polygons by properties Identifies properties of quadrilaterals Identifies the number of edges on rectangular prisms 	<p>Reason with Shapes and Their Attributes</p> <ul style="list-style-type: none"> Classifies scalene triangles Identifies properties of circles Compares polygons by properties Identifies properties of quadrilaterals
<p>Identify Lines & Angles and Graph Points</p> <ul style="list-style-type: none"> Determines the distance between horizontal and vertical lines in the first quadrant of a rectangular coordinate system Locates the origin on a coordinate grid Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents Identifies rays Identifies perpendicular lines Identifies acute angles Identifies obtuse angles Classifies polygons by type of angle 	<p>Identify Lines & Angles and Graph Points</p> <ul style="list-style-type: none"> Determines coordinates of geometric figures in the first quadrant Identifies rays Determines which lines are perpendicular (analysis) Identifies acute angles Classifies equilateral triangles Classifies polygons by type of angle 	<p>Identify Lines & Angles and Graph Points</p> <ul style="list-style-type: none"> Determines which lines are perpendicular (analysis) Classifies isosceles triangles
<p><i>New Vocabulary:</i> acute angle, congruent angle, obtuse angle, straight angle</p>	<p><i>New Vocabulary:</i> None</p>	<p><i>New Vocabulary:</i> None</p>
<p><i>New Signs and Symbols:</i> \angle angle, angle marker (arc)</p>	<p><i>New Signs and Symbols:</i> in. inch</p>	<p><i>New Signs and Symbols:</i> congruent segment symbol</p>

Explanatory Notes

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Skills and concepts to Enhance (73% Probability*) 221 - 230	Skills and Concepts to Develop (50% Probability*) 231 - 240	Skills and Concepts to Introduce (27% Probability*) 241 - 250
Reason with Shapes and Their Attributes <ul style="list-style-type: none"> Identifies and names a rhombus Identifies and names a quadrilateral Compares polygons by properties Identifies properties of quadrilaterals Identifies the number of edges on rectangular prisms 	Reason with Shapes and Their Attributes <ul style="list-style-type: none"> Classifies scalene triangles Identifies properties of circles Compares polygons by properties Identifies properties of quadrilaterals 	Reason with Shapes and Their Attributes
Identify Lines & Angles and Graph Points <ul style="list-style-type: none"> Determines coordinates of geometric figures in the first quadrant Identifies rays Determines which lines are perpendicular (analysis) Identifies acute angles Classifies equilateral triangles Classifies polygons by type of angle 	Identify Lines & Angles and Graph Points <ul style="list-style-type: none"> Determines which lines are perpendicular (analysis) Classifies isosceles triangles 	Identify Lines & Angles and Graph Points <ul style="list-style-type: none"> Determines the figure when plotting ordered pairs
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> in, inch	<i>New Signs and Symbols:</i> congruent segment symbol	<i>New Signs and Symbols:</i> None

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 231 - 240	Skills and Concepts to Develop (50% Probability*) 241 - 250	Skills and Concepts to Introduce (27% Probability*) > 250
Reason with Shapes and Their Attributes <ul style="list-style-type: none"> • Classifies scalene triangles • Identifies properties of circles • Compares polygons by properties • Identifies properties of quadrilaterals 	Reason with Shapes and Their Attributes	Reason with Shapes and Their Attributes <ul style="list-style-type: none"> • Classifies polygons by properties
Identify Lines & Angles and Graph Points <ul style="list-style-type: none"> • Determines which lines are perpendicular (analysis) • Classifies isosceles triangles 	Identify Lines & Angles and Graph Points <ul style="list-style-type: none"> • Determines the figure when plotting ordered pairs 	Identify Lines & Angles and Graph Points <ul style="list-style-type: none"> • Uses picture representations to identify symmetry of plane figures with respect to a point or line
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> congruent segment symbol	<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> None

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

Skills and concepts to Enhance (73% Probability*) 241 - 250	Skills and Concepts to Develop (50% Probability*) > 250
Reason with Shapes and Their Attributes	Reason with Shapes and Their Attributes
	<ul style="list-style-type: none"> Classifies polygons by properties
Identify Lines & Angles and Graph Points	Identify Lines & Angles and Graph Points
<ul style="list-style-type: none"> Determines the figure when plotting ordered pairs 	<ul style="list-style-type: none"> Uses picture representations to identify symmetry of plane figures with respect to a point or line
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> None

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.