

<b>Skills and Concepts to Develop (50% Probability*)</b> <b>&lt; 161</b>	<b>Skills and Concepts to Introduce (27% Probability*)</b> <b>161 - 170</b>
<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Counts numbers 0-20</li> <li>Identifies the numerical and written name for whole numbers 11 to 20 (e.g., 15 is fifteen, and vice versa)</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Identifies the numerical and written name for whole numbers 11 to 20 (e.g., 15 is fifteen, and vice versa)</li> <li>Counts 1 to 10 objects</li> <li>Counts numbers 0-20</li> <li>Counts ordinal numbers (1st to 10th)</li> <li>Orders whole numbers less than 10</li> <li>Writes whole numbers in standard and expanded form through the tens</li> </ul>
<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Uses models to construct whole number addition facts with addends through 10</li> <li>Uses models to calculate whole number sums through 99</li> <li>Adds two 1-digit numbers with sums to 10 in horizontal format</li> <li>Adds 1-digit to multiple-digit number with no regrouping</li> <li>Adds 1-digit to multiple-digit number with regrouping</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Uses a number line to construct addition facts with sums through 20 (whole numbers)</li> <li>Uses models to calculate whole number sums through 99</li> <li>Adds two 1-digit numbers with sums to 10 in horizontal format</li> <li>Adds two 1-digit numbers with sums to 10 in vertical format</li> <li>Adds two 1-digit numbers with sums between 10 and 19 in horizontal format</li> <li>Adds two 1-digit numbers with sums between 10 and 19 in vertical format</li> <li>Adds multiple 1-digit numbers</li> <li>Adds 1-digit to multiple-digit number with no regrouping</li> <li>Adds 1-digit to multiple-digit number with regrouping</li> <li>Adds 2-digit numbers with no regrouping</li> <li>Adds 2-digit to 3-digit number, with no regrouping, with sums under 1000</li> <li>Uses models to construct subtraction facts with differences through 10 (whole numbers)</li> <li>Subtracts two 1-digit numbers horizontally</li> <li>Subtracts a 1-digit number from a 2-digit number that is less than 20 (whole numbers only)</li> <li>Subtracts two 1-digit numbers vertically</li> <li>Subtracts a 2-digit number from a 2-digit number, with no regrouping</li> <li>Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12</li> <li>Identifies the missing operation symbol - 1-step number sentence</li> </ul>
<p><b>Estimation and Problem Solving</b></p>	<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens)</li> <li>Solves real-world whole number addition problems with sums to 20 (result unknown)</li> <li>Uses strategies for subtraction facts (e.g., counting back, one less, two less)</li> </ul>

**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 Develop (50% Probability*) < 161	Skills and Concepts to Introduce (27% Probability*) 161 - 170
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> + addition, ÷ division, = is equal to, × multiplication, - subtraction, variable

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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><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Counts numbers 0-20</li> <li>Identifies the numerical and written name for whole numbers 11 to 20 (e.g., 15 is fifteen, and vice versa)</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Identifies the numerical and written name for whole numbers 11 to 20 (e.g., 15 is fifteen, and vice versa)</li> <li>Counts 1 to 10 objects</li> <li>Counts numbers 0-20</li> <li>Counts ordinal numbers (1st to 10th)</li> <li>Orders whole numbers less than 10</li> <li>Writes whole numbers in standard and expanded form through the tens</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Identifies the numerical and written name for whole numbers 21 to 100 (e.g., 62 is sixty-two, and vice versa)</li> <li>Identifies the numeral and written name for whole numbers 101 to 999 (e.g., 342 is three hundred forty-two, and vice versa)</li> <li>Identifies the number that is "1 more than" a given number</li> <li>Identifies the numeral and written name for ordinal numbers 1st to 20th (e.g., 1st is first, and vice versa)</li> <li>Counts numbers 0-100</li> <li>Counts by 2's to 100</li> <li>Counts and writes by 5's</li> <li>Counts backwards from a given number (given number greater than 10)</li> <li>Identifies a whole number that comes between 2 given numbers (20 to 100)</li> <li>Counts ordinal numbers (first to tenth)</li> <li>Compares sets of objects and identifies which is equal to, more than, or less than the other (1 to 10 objects)</li> <li>Compares whole numbers through 100</li> <li>Compares whole numbers through 999</li> <li>Compares whole numbers 1 to 10, using the symbols for 'less than', 'equal to', or 'greater than' (&lt;, =, &gt;)</li> <li>Orders sets of objects 0-10</li> <li>Orders sets of objects 0-20</li> <li>Orders whole numbers less than 1000</li> <li>Counts objects that are grouped into tens and ones</li> <li>Identifies the place value and value of each digit in whole numbers through the tens place</li> <li>Represents 1/2 with a diagram or model</li> <li>Represents 1/4 with a diagram or model</li> <li>Identifies one-half from a region or set</li> </ul>
<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Uses models to construct whole number addition facts with addends through 10</li> <li>Uses models to calculate whole number sums through 99</li> <li>Adds two 1-digit numbers with sums to 10 in horizontal format</li> <li>Adds 1-digit to multiple-digit number with no regrouping</li> <li>Adds 1-digit to multiple-digit number with regrouping</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Uses a number line to construct addition facts with sums through 20 (whole numbers)</li> <li>Uses models to calculate whole number sums through 99</li> <li>Adds two 1-digit numbers with sums to 10 in horizontal format</li> <li>Adds two 1-digit numbers with sums to 10 in vertical format</li> <li>Adds two 1-digit numbers with sums between 10 and 19 in horizontal format</li> <li>Adds two 1-digit numbers with sums between 10 and 19 in vertical format</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Uses a number line to construct addition facts with sums through 20 (whole numbers)</li> <li>Uses models to calculate whole number sums through 999</li> <li>Adds 2-digit to 3-digit number, with no regrouping, with sums under 1000</li> <li>Adds two or three 2-digit number with regrouping</li> <li>Adds 1- and/or 2-digit numbers with sums under 100</li> <li>Adds 3-digit numbers with no regrouping</li> <li>Adds 3-digit numbers, with regrouping, with sums under 1000</li> </ul>

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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
Operations on Numbers	<p>Operations on Numbers</p> <ul style="list-style-type: none"> <li>• Adds multiple 1-digit numbers</li> <li>• Adds 1-digit to multiple-digit number with no regrouping</li> <li>• Adds 1-digit to multiple-digit number with regrouping</li> <li>• Adds 2-digit numbers with no regrouping</li> <li>• Adds 2-digit to 3-digit number, with no regrouping, with sums under 1000</li> <li>• Uses models to construct subtraction facts with differences through 10 (whole numbers)</li> <li>• Subtracts two 1-digit numbers horizontally</li> <li>• Subtracts a 1-digit number from a 2-digit number that is less than 20 (whole numbers only)</li> <li>• Subtracts two 1-digit numbers vertically</li> <li>• Subtracts a 2-digit number from a 2-digit number, with no regrouping</li> <li>• Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12</li> <li>• Identifies the missing operation symbol - 1-step number sentence</li> </ul>	<p>Operations on Numbers</p> <ul style="list-style-type: none"> <li>• Adds multiple-digit numbers, with no regrouping, with sums over 1000</li> <li>• Uses models to calculate differences through 1000 (whole numbers)</li> <li>• Subtracts a 1-digit number from a 2-digit number that is less than 20 (whole numbers only)</li> <li>• Subtracts a 1-digit number from a 2-digit number with no regrouping, vertically</li> <li>• Subtracts a 1-digit number from a multiple-digit number</li> <li>• Subtracts a 2-digit number from a 2-digit number, with no regrouping</li> <li>• Subtracts 2- and/or 3-digit numbers with no regrouping</li> <li>• Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12</li> <li>• Multiplies basic facts to 10 x 10 vertically</li> <li>• Adds 1-digit numbers with sums to 18 (with parentheses)</li> <li>• Identifies the missing operation symbol - 1-step number sentence</li> <li>• Recognizes addition and subtraction fact families through 18</li> </ul>
Estimation and Problem Solving	<p>Estimation and Problem Solving</p> <ul style="list-style-type: none"> <li>• Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens)</li> <li>• Solves real-world whole number addition problems with sums to 20 (result unknown)</li> <li>• Uses strategies for subtraction facts (e.g., counting back, one less, two less)</li> </ul>	<p>Estimation and Problem Solving</p> <ul style="list-style-type: none"> <li>• Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens)</li> <li>• Solves real-world whole number addition problems with sums to 20 (result unknown)</li> <li>• Solves real-world whole number addition problems with sums to 20 (start unknown)</li> <li>• Solves real-world whole number addition problems with sums to 100 (result unknown)</li> <li>• Solves real-world whole number addition problems with sums to 1000</li> <li>• Uses strategies for subtraction facts (e.g., counting back, one less, two less)</li> <li>• Solves real-world whole number problems involving subtraction with numbers under 20</li> </ul>
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> between, fact family, fourth, hundred, smallest, thirds, thousand
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> + addition, ÷ division, = is equal to, × multiplication, - subtraction, variable	<i>New Signs and Symbols:</i> ( ) order of operations, lb pound

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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><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Identifies the numerical and written name for whole numbers 11 to 20 (e.g., 15 is fifteen, and vice versa)</li> <li>Counts 1 to 10 objects</li> <li>Counts numbers 0-20</li> <li>Counts ordinal numbers (1st to 10th)</li> <li>Orders whole numbers less than 10</li> <li>Writes whole numbers in standard and expanded form through the tens</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Identifies the numerical and written name for whole numbers 21 to 100 (e.g., 62 is sixty-two, and vice versa)</li> <li>Identifies the numeral and written name for whole numbers 101 to 999 (e.g., 342 is three hundred forty-two, and vice versa)</li> <li>Identifies the number that is "1 more than" a given number</li> <li>Identifies the numeral and written name for ordinal numbers 1st to 20th (e.g., 1st is first, and vice versa)</li> <li>Counts numbers 0-100</li> <li>Counts by 2's to 100</li> <li>Counts and writes by 5's</li> <li>Counts backwards from a given number (given number greater than 10)</li> <li>Identifies a whole number that comes between 2 given numbers (20 to 100)</li> <li>Counts ordinal numbers (first to tenth)</li> <li>Compares sets of objects and identifies which is equal to, more than, or less than the other (1 to 10 objects)</li> <li>Compares whole numbers through 100</li> <li>Compares whole numbers through 999</li> <li>Compares whole numbers 1 to 10, using the symbols for 'less than', 'equal to', or 'greater than' (&lt;, =, &gt;)</li> <li>Orders sets of objects 0-10</li> <li>Orders sets of objects 0-20</li> <li>Orders whole numbers less than 1000</li> <li>Counts objects that are grouped into tens and ones</li> <li>Identifies the place value and value of each digit in whole numbers through the tens place</li> <li>Represents <math>\frac{1}{2}</math> with a diagram or model</li> <li>Represents <math>\frac{1}{4}</math> with a diagram or model</li> <li>Identifies one-half from a region or set</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Identifies the numeral and written name for whole numbers 101 to 999 (e.g., 342 is three hundred forty-two, and vice versa)</li> <li>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)</li> <li>Identifies the numeral and written name for whole numbers 10,000 to 100,000</li> <li>Identifies the number that is "1 less than" a given number</li> <li>Counts and writes by 3's</li> <li>Counts ordinal numbers (first to tenth)</li> <li>Identifies the ordinal number that comes before, between, or after a given ordinal number (first to tenth)</li> <li>Compares whole numbers through 999</li> <li>Compares whole numbers through 9999</li> <li>Orders sets of objects 0-20</li> <li>Orders whole numbers less than 100</li> <li>Orders whole numbers less than 1000</li> <li>Counts objects that are grouped into tens and ones</li> <li>Identifies whole numbers under 100 given place value terms (e.g., 3 tens and 4 ones = 34)</li> <li>Identifies the place value and value of each digit in whole numbers through the tens place</li> <li>Identifies the place value and value of each digit in whole numbers through the hundreds place</li> <li>Identifies the place value and value of each digit in whole numbers through the thousands</li> <li>Identifies the place value and value of each digit in whole numbers through the hundred thousands</li> <li>Represents <math>\frac{3}{4}</math> with a diagram or model</li> <li>Identifies equal parts by using models</li> <li>Identifies <math>\frac{1}{2}</math> from a region or set</li> <li>Identifies one-half from a region or set</li> <li>Identifies <math>\frac{1}{4}</math> from a region or set</li> <li>Identifies <math>\frac{2}{4}</math>, <math>\frac{3}{4}</math>, or <math>\frac{4}{4}</math> from a region or set</li> <li>Identifies <math>\frac{2}{3}</math> or <math>\frac{3}{3}</math> from a region or set</li> <li>Identifies tenths from a region or set</li> <li>Identifies eighths from a region or set</li> <li>Identifies a fraction (denominators other than 2, 3, 4, 8, 10) from a region or set</li> <li>Compares and orders decimals to the hundredths place (same number of digits after decimal)</li> </ul>

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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>Operations on Numbers</p> <ul style="list-style-type: none"> <li>• Uses a number line to construct addition facts with sums through 20 (whole numbers)</li> <li>• Uses models to calculate whole number sums through 99</li> <li>• Adds two 1-digit numbers with sums to 10 in horizontal format</li> <li>• Adds two 1-digit numbers with sums to 10 in vertical format</li> <li>• Adds two 1-digit numbers with sums between 10 and 19 in horizontal format</li> <li>• Adds two 1-digit numbers with sums between 10 and 19 in vertical format</li> <li>• Adds multiple 1-digit numbers</li> <li>• Adds 1-digit to multiple-digit number with no regrouping</li> <li>• Adds 1-digit to multiple-digit number with regrouping</li> <li>• Adds 2-digit numbers with no regrouping</li> <li>• Adds 2-digit to 3-digit number, with no regrouping, with sums under 1000</li> <li>• Uses models to construct subtraction facts with differences through 10 (whole numbers)</li> <li>• Subtracts two 1-digit numbers horizontally</li> <li>• Subtracts a 1-digit number from a 2-digit number that is less than 20 (whole numbers only)</li> <li>• Subtracts two 1-digit numbers vertically</li> <li>• Subtracts a 2-digit number from a 2-digit number, with no regrouping</li> <li>• Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12</li> <li>• Identifies the missing operation symbol - 1-step number sentence</li> </ul>	<p>Operations on Numbers</p> <ul style="list-style-type: none"> <li>• Uses a number line to construct addition facts with sums through 20 (whole numbers)</li> <li>• Uses models to calculate whole number sums through 999</li> <li>• Adds 2-digit to 3-digit number, with no regrouping, with sums under 1000</li> <li>• Adds two or three 2-digit number with regrouping</li> <li>• Adds 1- and/or 2-digit numbers with sums under 100</li> <li>• Adds 3-digit numbers with no regrouping</li> <li>• Adds 3-digit numbers, with regrouping, with sums under 1000</li> <li>• Adds multiple-digit numbers, with no regrouping, with sums over 1000</li> <li>• Uses models to calculate differences through 1000 (whole numbers)</li> <li>• Subtracts a 1-digit number from a 2-digit number that is less than 20 (whole numbers only)</li> <li>• Subtracts a 1-digit number from a 2-digit number with no regrouping, vertically</li> <li>• Subtracts a 1-digit number from a multiple-digit number</li> <li>• Subtracts a 2-digit number from a 2-digit number, with no regrouping</li> <li>• Subtracts 2- and/or 3-digit numbers with no regrouping</li> <li>• Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12</li> <li>• Multiplies basic facts to 10 x 10 vertically</li> <li>• Adds 1-digit numbers with sums to 18 (with parentheses)</li> <li>• Identifies the missing operation symbol - 1-step number sentence</li> <li>• Recognizes addition and subtraction fact families through 18</li> </ul>	<p>Operations on Numbers</p> <ul style="list-style-type: none"> <li>• Instantly recalls basic addition facts with sums to 18 in a table</li> <li>• Adds two or three 2-digit number with regrouping</li> <li>• Adds 2-digit to 3-digit number with regrouping</li> <li>• Adds 3-digit numbers, with regrouping, with sums under 1000</li> <li>• Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000</li> <li>• Adds multiple-digit numbers, with regrouping, with sums over 1000</li> <li>• Uses a number line to construct subtraction facts with subtrahends and minuends through 20 (whole numbers)</li> <li>• Uses models to calculate differences through 100 (whole numbers)</li> <li>• Uses models to calculate differences through 1000 (whole numbers)</li> <li>• Instantly recalls basic subtraction facts with minuend less than 10</li> <li>• Subtracts a 1-digit number from a multiple-digit number</li> <li>• Subtracts a 2-digit number from a 2-digit number, with regrouping</li> <li>• Subtracts 2- and/or 3-digit numbers with no regrouping</li> <li>• Subtracts 3- or 4-digit numbers with regrouping</li> <li>• Performs mental subtraction with numbers under 1000</li> <li>• Subtracts multiple-digit numbers with no regrouping</li> <li>• Uses counting by multiples for multiplication</li> <li>• Instantly recalls basic multiplication facts where one factor is 6-12 and the other factor is 0-12</li> <li>• Multiplies basic facts to 10 x 10 vertically</li> <li>• Multiplies a 2-digit number by a 1-digit number with regrouping</li> <li>• Multiplies a 2-digit number by a 2-digit number with no regrouping</li> <li>• Uses manipulatives to divide a small set of objects into groups of equal size</li> <li>• Uses sharing for division</li> <li>• Models whole number multiplication and division algorithms (e.g., shows multiplication as repeated addition and division as repeated subtraction)</li> <li>• Models multiplication and division algorithms using arrays (whole numbers)</li> <li>• Instantly recalls division facts with dividend and divisors less than 10</li> <li>• Identifies the missing operation symbol - 2-step number sentence</li> <li>• Recognizes addition and subtraction fact families through 18</li> <li>• Demonstrates an understanding of the associative property of addition</li> <li>• Demonstrates an understanding of the zero property of multiplication</li> <li>• Adds decimals to the hundredths place (same number of digits)</li> </ul>

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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
Operations on Numbers	Operations on Numbers	Operations on Numbers <ul style="list-style-type: none"> <li>• Subtracts decimals to the hundredths place (same number of digits) without regrouping</li> <li>• Determines whether a set of objects has an odd or even number of elements</li> <li>• Distinguishes between odd and even numbers</li> <li>• Applies rules of divisibility by 5's</li> </ul>
<b>Estimation and Problem Solving</b> <ul style="list-style-type: none"> <li>• Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens)</li> <li>• Solves real-world whole number addition problems with sums to 20 (result unknown)</li> <li>• Uses strategies for subtraction facts (e.g., counting back, one less, two less)</li> </ul>	<b>Estimation and Problem Solving</b> <ul style="list-style-type: none"> <li>• Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens)</li> <li>• Solves real-world whole number addition problems with sums to 20 (result unknown)</li> <li>• Solves real-world whole number addition problems with sums to 20 (start unknown)</li> <li>• Solves real-world whole number addition problems with sums to 100 (result unknown)</li> <li>• Solves real-world whole number addition problems with sums to 1000</li> <li>• Uses strategies for subtraction facts (e.g., counting back, one less, two less)</li> <li>• Solves real-world whole number problems involving subtraction with numbers under 20</li> </ul>	<b>Estimation and Problem Solving</b> <ul style="list-style-type: none"> <li>• Uses rounding to estimate answers to real-world problems involving addition of numbers less than 100 (whole numbers only)</li> <li>• Solves real-world whole number addition problems with sums to 20 (result unknown) - with extraneous information given</li> <li>• Solves real-world whole number addition problems with sums to 100 (result unknown)</li> <li>• Solves real-world whole number addition problems with sums to 1000</li> <li>• Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on)</li> <li>• Solves real-world whole number problems involving subtraction with numbers under 20</li> <li>• Solves real-world whole number problems involving subtraction with numbers 100 and under</li> <li>• Solves real-world whole number problems involving subtraction with numbers under 1000</li> <li>• Solves problems using the inverse relationship between addition and subtraction</li> <li>• Solves word problems involving basic whole number multiplication facts to 10 x 10</li> <li>• Solves word problems with whole number division facts with dividend and divisors less than 11 involving money</li> <li>• Rounds 2- and 3- digit whole numbers to the nearest ten</li> <li>• Rounds 3-digit whole numbers to the nearest hundred</li> </ul>
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> between, fact family, fourth, hundred, smallest, thirds, thousand	<i>New Vocabulary:</i> closest, digit, divisible, fourths, hundreds, million, nearest, odd number, one, row, seventh, ten thousand, unifix cubes
<i>New Signs and Symbols:</i> + addition, ÷ division, = is equal to, × multiplication, - subtraction, variable	<i>New Signs and Symbols:</i> ( ) order of operations, lb pound	<i>New Signs and Symbols:</i> { } set notation, < less than, long division symbol

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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><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Identifies the numerical and written name for whole numbers 21 to 100 (e.g., 62 is sixty-two, and vice versa)</li> <li>Identifies the numeral and written name for whole numbers 101 to 999 (e.g., 342 is three hundred forty-two, and vice versa)</li> <li>Identifies the number that is "1 more than" a given number</li> <li>Identifies the numeral and written name for ordinal numbers 1st to 20th (e.g., 1st is first, and vice versa)</li> <li>Counts numbers 0-100</li> <li>Counts by 2's to 100</li> <li>Counts and writes by 5's</li> <li>Counts backwards from a given number (given number greater than 10)</li> <li>Identifies a whole number that comes between 2 given numbers (20 to 100)</li> <li>Counts ordinal numbers (first to tenth)</li> <li>Compares sets of objects and identifies which is equal to, more than, or less than the other (1 to 10 objects)</li> <li>Compares whole numbers through 100</li> <li>Compares whole numbers through 999</li> <li>Compares whole numbers 1 to 10, using the symbols for 'less than', 'equal to', or 'greater than' (&lt;, =, &gt;)</li> <li>Orders sets of objects 0-10</li> <li>Orders sets of objects 0-20</li> <li>Orders whole numbers less than 1000</li> <li>Counts objects that are grouped into tens and ones</li> <li>Identifies the place value and value of each digit in whole numbers through the tens place</li> <li>Represents <math>\frac{1}{2}</math> with a diagram or model</li> <li>Represents <math>\frac{1}{4}</math> with a diagram or model</li> <li>Identifies one-half from a region or set</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Identifies the numeral and written name for whole numbers 101 to 999 (e.g., 342 is three hundred forty-two, and vice versa)</li> <li>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)</li> <li>Identifies the numeral and written name for whole numbers 10,000 to 100,000</li> <li>Identifies the number that is "1 less than" a given number</li> <li>Counts and writes by 3's</li> <li>Counts ordinal numbers (first to tenth)</li> <li>Identifies the ordinal number that comes before, between, or after a given ordinal number (first to tenth)</li> <li>Compares whole numbers through 999</li> <li>Compares whole numbers through 9999</li> <li>Orders sets of objects 0-20</li> <li>Orders whole numbers less than 100</li> <li>Orders whole numbers less than 1000</li> <li>Counts objects that are grouped into tens and ones</li> <li>Identifies whole numbers under 100 given place value terms (e.g., 3 tens and 4 ones = 34)</li> <li>Identifies the place value and value of each digit in whole numbers through the tens place</li> <li>Identifies the place value and value of each digit in whole numbers through the hundreds place</li> <li>Identifies the place value and value of each digit in whole numbers through the thousands</li> <li>Identifies the place value and value of each digit in whole numbers through the hundred thousands</li> <li>Represents <math>\frac{3}{4}</math> with a diagram or model</li> <li>Identifies equal parts by using models</li> <li>Identifies <math>\frac{1}{2}</math> from a region or set</li> <li>Identifies one-half from a region or set</li> <li>Identifies <math>\frac{1}{4}</math> from a region or set</li> <li>Identifies <math>\frac{2}{4}</math>, <math>\frac{3}{4}</math>, or <math>\frac{4}{4}</math> from a region or set</li> <li>Identifies <math>\frac{2}{3}</math> or <math>\frac{3}{3}</math> from a region or set</li> <li>Identifies tenths from a region or set</li> <li>Identifies eighths from a region or set</li> <li>Identifies a fraction (denominators other than 2, 3, 4, 8, 10) from a region or set</li> <li>Compares and orders decimals to the hundredths place (same number of digits after decimal)</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Identifies the numeral and written name for whole numbers with a zero between digits to the ten thousands place</li> <li>Identifies the numeral and written name for whole numbers 10,000 to 100,000</li> <li>Identifies the numeral and written name for whole numbers over 100,000</li> <li>Identifies the numeral and written name for ordinal numbers 21st to 100th (e.g., 21st is twenty-first, and vice versa)</li> <li>Compares whole numbers through 999,999</li> <li>Compares whole numbers to 100, using the symbols for 'less than', 'equal to', or 'greater than' (&lt;, =, &gt;)</li> <li>Compares whole numbers through the thousands using the symbols &lt;, &gt;, or =</li> <li>Orders whole numbers less than 1000</li> <li>Orders whole numbers less than 10,000</li> <li>Identifies whole numbers under 100 given place value terms (e.g., 3 tens and 4 ones = 34)</li> <li>Identifies the place value and value of each digit in whole numbers through the thousands</li> <li>Identifies the place value and value of each digit in whole numbers through the hundred thousands</li> <li>Writes whole numbers in standard and expanded form through the hundreds</li> <li>Writes whole numbers in standard and expanded form through the thousands</li> <li>Represents <math>\frac{1}{3}</math> with a diagram or model</li> <li>Represents fractions with denominators other than 2, 3, 4 with a diagram or model</li> <li>Identifies <math>\frac{1}{4}</math> from a region or set</li> <li>Identifies <math>\frac{1}{3}</math> from a region or set</li> <li>Identifies <math>\frac{2}{3}</math> or <math>\frac{3}{3}</math> from a region or set</li> <li>Identifies tenths from a region or set</li> <li>Identifies a fraction (denominators other than 2, 3, 4, 8, 10) from a region or set</li> <li>Identifies equivalent fractions using visual representations</li> <li>Matches numeric and visual representation of equivalent fractions</li> <li>Writes the missing number in a proportion using basic facts</li> </ul>

#### 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><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>• Uses a number line to construct addition facts with sums through 20 (whole numbers)</li> <li>• Uses models to calculate whole number sums through 999</li> <li>• Adds 2-digit to 3-digit number, with no regrouping, with sums under 1000</li> <li>• Adds two or three 2-digit number with regrouping</li> <li>• Adds 1- and/or 2-digit numbers with sums under 100</li> <li>• Adds 3-digit numbers with no regrouping</li> <li>• Adds 3-digit numbers, with regrouping, with sums under 1000</li> <li>• Adds multiple-digit numbers, with no regrouping, with sums over 1000</li> <li>• Uses models to calculate differences through 1000 (whole numbers)</li> <li>• Subtracts a 1-digit number from a 2-digit number that is less than 20 (whole numbers only)</li> <li>• Subtracts a 1-digit number from a 2-digit number with no regrouping, vertically</li> <li>• Subtracts a 1-digit number from a multiple-digit number</li> <li>• Subtracts a 2-digit number from a 2-digit number, with no regrouping</li> <li>• Subtracts 2- and/or 3-digit numbers with no regrouping</li> <li>• Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12</li> <li>• Multiplies basic facts to 10 x 10 vertically</li> <li>• Adds 1-digit numbers with sums to 18 (with parentheses)</li> <li>• Identifies the missing operation symbol - 1-step number sentence</li> <li>• Recognizes addition and subtraction fact families through 18</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>• Instantly recalls basic addition facts with sums to 18 in a table</li> <li>• Adds two or three 2-digit number with regrouping</li> <li>• Adds 2-digit to 3-digit number with regrouping</li> <li>• Adds 3-digit numbers, with regrouping, with sums under 1000</li> <li>• Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000</li> <li>• Adds multiple-digit numbers, with regrouping, with sums over 1000</li> <li>• Uses a number line to construct subtraction facts with subtrahends and minuends through 20 (whole numbers)</li> <li>• Uses models to calculate differences through 100 (whole numbers)</li> <li>• Uses models to calculate differences through 1000 (whole numbers)</li> <li>• Instantly recalls basic subtraction facts with minuend less than 10</li> <li>• Subtracts a 1-digit number from a multiple-digit number</li> <li>• Subtracts a 2-digit number from a 2-digit number, with regrouping</li> <li>• Subtracts 2- and/or 3-digit numbers with no regrouping</li> <li>• Subtracts 3- or 4-digit numbers with regrouping</li> <li>• Performs mental subtraction with numbers under 1000</li> <li>• Subtracts multiple-digit numbers with no regrouping</li> <li>• Uses counting by multiples for multiplication</li> <li>• Instantly recalls basic multiplication facts where one factor is 6-12 and the other factor is 0-12</li> <li>• Multiplies basic facts to 10 x 10 vertically</li> <li>• Multiplies a 2-digit number by a 1-digit number with regrouping</li> <li>• Multiplies a 2-digit number by a 2-digit number with no regrouping</li> <li>• Uses manipulatives to divide a small set of objects into groups of equal size</li> <li>• Uses sharing for division</li> <li>• Models whole number multiplication and division algorithms (e.g., shows multiplication as repeated addition and division as repeated subtraction)</li> <li>• Models multiplication and division algorithms using arrays (whole numbers)</li> <li>• Instantly recalls division facts with dividend and divisors less than 10</li> <li>• Identifies the missing operation symbol - 2-step number sentence</li> <li>• Recognizes addition and subtraction fact families through 18</li> <li>• Demonstrates an understanding of the associative property of addition</li> <li>• Demonstrates an understanding of the zero property of multiplication</li> <li>• Adds decimals to the hundredths place (same number of digits)</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>• Adds 2-digit to 3-digit number with regrouping</li> <li>• Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000</li> <li>• Adds multiple-digit numbers, with regrouping, with sums over 1000</li> <li>• Adds multiple-digit numbers with sums under 1000</li> <li>• Uses a number line to construct subtraction facts with subtrahends and minuends through 20 (whole numbers)</li> <li>• Adds and subtracts whole numbers using place value</li> <li>• Subtracts 1-digit number from a 2-digit number with regrouping</li> <li>• Subtracts a 2-digit number from a 2-digit number, with regrouping</li> <li>• Subtracts a 2-digit number from a 3-digit number with a single regrouping</li> <li>• Subtracts 3- or 4-digit numbers with regrouping</li> <li>• Performs mental subtraction with numbers under 1000</li> <li>• Performs mental subtraction with numbers 1000 and over</li> <li>• Subtracts multiple-digit numbers with no regrouping</li> <li>• Uses a number line to model multiplication (whole numbers)</li> <li>• Instantly recalls basic multiplication facts where one factor is 6-12 and the other factor is 0-12</li> <li>• Multiplies a 2- or 3-digit number by a 1-digit number with no regrouping</li> <li>• Multiplies a 2-digit number by a 1-digit number with regrouping</li> <li>• Multiplies a 3- or 4-digit number by a 1-digit number</li> <li>• Multiplies a 2-digit number by a 2-digit number with no regrouping</li> <li>• Multiplies a 3-digit number by a 2-digit number with no regrouping</li> <li>• Performs mental computation with multiplication</li> <li>• Uses manipulatives to divide a small set of objects into groups of equal size</li> <li>• Uses repeated subtraction for division</li> <li>• Models whole number multiplication and division algorithms (e.g., shows multiplication as repeated addition and division as repeated subtraction)</li> <li>• Instantly recalls division facts with dividend and divisors less than 10</li> <li>• Instantly recalls division facts with dividend and divisors less than 13</li> <li>• Divides a 2-digit number by a 1-digit number with no remainder</li> <li>• Identifies the missing operation symbol - 2-step number sentence</li> <li>• Demonstrates an understanding of the commutative property of multiplication with simple problems</li> <li>• Demonstrates an understanding of the zero property of multiplication</li> <li>• Demonstrates an understanding of the multiplicative property of 1 (identity)</li> </ul>

**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>Operations on Numbers</p>	<p>Operations on Numbers</p> <ul style="list-style-type: none"> <li>Subtracts decimals to the hundredths place (same number of digits) without regrouping</li> <li>Determines whether a set of objects has an odd or even number of elements</li> <li>Distinguishes between odd and even numbers</li> <li>Applies rules of divisibility by 5's</li> </ul>	<p>Operations on Numbers</p> <ul style="list-style-type: none"> <li>Recognizes multiplication and division fact families</li> <li>Uses models to add and subtract fractions and connect the actions to algorithms</li> <li>Subtracts fractions with like denominators without reducing</li> <li>Adds decimals to the hundredths place (same number of digits)</li> <li>Adds decimals to the hundredths place in vertical format (not same number of digits)</li> <li>Adds decimals to the thousandths place vertically with and without regrouping</li> <li>Subtracts decimals to the hundredths place (same number of digits) without regrouping</li> <li>Subtracts decimals to the hundredths place (same number of digits) with regrouping</li> <li>Subtracts decimals to the thousandths place, vertically, with and without regrouping</li> <li>Multiplies a decimal by whole number</li> <li>Distinguishes between odd and even numbers</li> <li>Identifies numbers as composite</li> </ul>
<p>Estimation and Problem Solving</p> <ul style="list-style-type: none"> <li>Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens)</li> <li>Solves real-world whole number addition problems with sums to 20 (result unknown)</li> <li>Solves real-world whole number addition problems with sums to 20 (start unknown)</li> <li>Solves real-world whole number addition problems with sums to 100 (result unknown)</li> <li>Solves real-world whole number addition problems with sums to 1000</li> <li>Uses strategies for subtraction facts (e.g., counting back, one less, two less)</li> <li>Solves real-world whole number problems involving subtraction with numbers under 20</li> </ul>	<p>Estimation and Problem Solving</p> <ul style="list-style-type: none"> <li>Uses rounding to estimate answers to real-world problems involving addition of numbers less than 100 (whole numbers only)</li> <li>Solves real-world whole number addition problems with sums to 20 (result unknown) - with extraneous information given</li> <li>Solves real-world whole number addition problems with sums to 100 (result unknown)</li> <li>Solves real-world whole number addition problems with sums to 1000</li> <li>Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on)</li> <li>Solves real-world whole number problems involving subtraction with numbers under 20</li> <li>Solves real-world whole number problems involving subtraction with numbers 100 and under</li> <li>Solves real-world whole number problems involving subtraction with numbers under 1000</li> <li>Solves problems using the inverse relationship between addition and subtraction</li> <li>Solves word problems involving basic whole number multiplication facts to 10 x 10</li> <li>Solves word problems with whole number division facts with dividend and divisors less than 11 involving money</li> <li>Rounds 2- and 3- digit whole numbers to the nearest ten</li> </ul>	<p>Estimation and Problem Solving</p> <ul style="list-style-type: none"> <li>Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with addition and subtraction (whole numbers only)</li> <li>Uses front end digits to estimate answers in addition and subtraction computations (whole numbers only)</li> <li>Uses rounding to estimate answers to addition and subtraction problems (whole numbers only)</li> <li>Solves real-world whole number addition problems with sums to 20 (result unknown) - with extraneous information given</li> <li>Solves real-world whole number addition problems with sums to 20 (change unknown)</li> <li>Solves real-world whole number addition problems with sums to 100 (start unknown)</li> <li>Solves whole number addition word problems with sums over 1000</li> <li>Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on)</li> <li>Solves real-world whole number problems involving subtraction with numbers 100 and under</li> <li>Solves real-world whole number problems involving subtraction with numbers under 1000</li> <li>Solves whole number subtraction word problems with numbers over 1000</li> </ul>

**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>Estimation and Problem Solving</p>	<p>Estimation and Problem Solving</p> <ul style="list-style-type: none"> <li>• Rounds 3-digit whole numbers to the nearest hundred</li> </ul>	<p>Estimation and Problem Solving</p> <ul style="list-style-type: none"> <li>• Solves problems using the inverse relationship between addition and subtraction</li> <li>• Solves word problems involving basic whole number multiplication facts to 10 x 10</li> <li>• Solves word problems involving whole number multiplication with numbers greater than 10 x 10</li> <li>• Uses strategies to determine 1 missing digit (multiplication/division only)</li> <li>• Solves word problems with whole number division facts with dividend and divisors less than 11</li> <li>• Solves simple word problems involving whole number division with remainder (e.g., 1-step, 1-digit divisor)</li> <li>• Rounds 2- and 3- digit whole numbers to the nearest ten</li> <li>• Rounds 3-digit whole numbers to the nearest hundred</li> </ul>
<p><i>New Vocabulary:</i> between, fact family, fourth, hundred, smallest, thirds, thousand</p>	<p><i>New Vocabulary:</i> closest, digit, divisible, fourths, hundreds, million, nearest, odd number, one, row, seventh, ten thousand, unifix cubes</p>	<p><i>New Vocabulary:</i> billion, capacity, composite number, each, hundred million, prime number, quintillion, standard numeral, thousands, trillion</p>
<p><i>New Signs and Symbols:</i> ( ) order of operations, lb pound</p>	<p><i>New Signs and Symbols:</i> { } set notation, &lt; less than, long division symbol</p>	<p><i>New Signs and Symbols:</i> \$ dollar sign, ft feet, &gt; greater than, R remainder</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><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Identifies the numeral and written name for whole numbers 101 to 999 (e.g., 342 is three hundred forty-two, and vice versa)</li> <li>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)</li> <li>Identifies the numeral and written name for whole numbers 10,000 to 100,000</li> <li>Identifies the number that is "1 less than" a given number</li> <li>Counts and writes by 3's</li> <li>Counts ordinal numbers (first to tenth)</li> <li>Identifies the ordinal number that comes before, between, or after a given ordinal number (first to tenth)</li> <li>Compares whole numbers through 999</li> <li>Compares whole numbers through 9999</li> <li>Orders sets of objects 0-20</li> <li>Orders whole numbers less than 100</li> <li>Orders whole numbers less than 1000</li> <li>Counts objects that are grouped into tens and ones</li> <li>Identifies whole numbers under 100 given place value terms (e.g., 3 tens and 4 ones = 34)</li> <li>Identifies the place value and value of each digit in whole numbers through the tens place</li> <li>Identifies the place value and value of each digit in whole numbers through the hundreds place</li> <li>Identifies the place value and value of each digit in whole numbers through the thousands</li> <li>Identifies the place value and value of each digit in whole numbers through the hundred thousands</li> <li>Represents <math>\frac{3}{4}</math> with a diagram or model</li> <li>Identifies equal parts by using models</li> <li>Identifies <math>\frac{1}{2}</math> from a region or set</li> <li>Identifies one-half from a region or set</li> <li>Identifies <math>\frac{1}{4}</math> from a region or set</li> <li>Identifies <math>\frac{2}{4}</math>, <math>\frac{3}{4}</math>, or <math>\frac{4}{4}</math> from a region or set</li> <li>Identifies <math>\frac{2}{3}</math> or <math>\frac{3}{3}</math> from a region or set</li> <li>Identifies tenths from a region or set</li> <li>Identifies eighths from a region or set</li> <li>Identifies a fraction (denominators other than 2, 3, 4, 8, 10) from a region or set</li> <li>Compares and orders decimals to the hundredths place (same number of digits after decimal)</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Identifies the numeral and written name for whole numbers with a zero between digits to the ten thousands place</li> <li>Identifies the numeral and written name for whole numbers 10,000 to 100,000</li> <li>Identifies the numeral and written name for whole numbers over 100,000</li> <li>Identifies the numeral and written name for ordinal numbers 21st to 100th (e.g., 21st is twenty-first, and vice versa)</li> <li>Compares whole numbers through 999,999</li> <li>Compares whole numbers to 100, using the symbols for 'less than', 'equal to', or 'greater than' (&lt;, =, &gt;)</li> <li>Compares whole numbers through the thousands using the symbols &lt;, &gt;, or =</li> <li>Orders whole numbers less than 1000</li> <li>Orders whole numbers less than 10,000</li> <li>Identifies whole numbers under 100 given place value terms (e.g., 3 tens and 4 ones = 34)</li> <li>Identifies the place value and value of each digit in whole numbers through the thousands</li> <li>Identifies the place value and value of each digit in whole numbers through the hundred thousands</li> <li>Writes whole numbers in standard and expanded form through the hundreds</li> <li>Writes whole numbers in standard and expanded form through the thousands</li> <li>Represents <math>\frac{1}{3}</math> with a diagram or model</li> <li>Represents fractions with denominators other than 2, 3, 4 with a diagram or model</li> <li>Identifies <math>\frac{1}{4}</math> from a region or set</li> <li>Identifies <math>\frac{1}{3}</math> from a region or set</li> <li>Identifies <math>\frac{2}{3}</math> or <math>\frac{3}{3}</math> from a region or set</li> <li>Identifies tenths from a region or set</li> <li>Identifies a fraction (denominators other than 2, 3, 4, 8, 10) from a region or set</li> <li>Identifies equivalent fractions using visual representations</li> <li>Matches numeric and visual representation of equivalent fractions</li> <li>Writes the missing number in a proportion using basic facts</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Identifies the numeral and written name for whole numbers with a zero between digits to the ten thousands place</li> <li>Identifies the numeral and written name for whole numbers over 100,000</li> <li>Identifies a whole number that comes before and/or after a given number (over 100)</li> <li>Compares whole numbers through 999,999</li> <li>Orders whole numbers less than 10,000</li> <li>Writes equivalent forms of whole numbers using place value (e.g., 54 = 4 tens and 14 ones)</li> <li>Identifies the place value and value of each digit in whole numbers through the billions</li> <li>Writes whole numbers in standard and expanded form through the hundred thousands</li> <li>Writes whole numbers using place value terms and vice versa</li> <li>Identifies halves of a region using nonadjacent parts</li> <li>Identifies equivalent fractions using visual representations</li> <li>Expresses "1" in many different ways (e.g., <math>\frac{3}{3}</math>, <math>\frac{4}{4}</math>)</li> <li>Converts a basic fractional numeral to lowest terms (e.g., halves, thirds, quarters)</li> <li>Writes mixed numbers as improper fractions and improper fractions as mixed numbers</li> <li>Compares fractions (e.g., common denominator, 1 in the numerator, denominator is 2, 3, 4, 6, 8, 10)</li> <li>Orders fractions on a number line</li> <li>Identifies the place value and value of each digit to the tenths</li> <li>Expresses the equivalent form of a fraction, decimal, and/or percent (simple fraction)</li> <li>Writes the missing number in a proportion using basic facts</li> </ul>

#### 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>Operations on Numbers</p> <ul style="list-style-type: none"> <li>Instantly recalls basic addition facts with sums to 18 in a table</li> <li>Adds two or three 2-digit number with regrouping</li> <li>Adds 2-digit to 3-digit number with regrouping</li> <li>Adds 3-digit numbers, with regrouping, with sums under 1000</li> <li>Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000</li> <li>Adds multiple-digit numbers, with regrouping, with sums over 1000</li> <li>Uses a number line to construct subtraction facts with subtrahends and minuends through 20 (whole numbers)</li> <li>Uses models to calculate differences through 100 (whole numbers)</li> <li>Uses models to calculate differences through 1000 (whole numbers)</li> <li>Instantly recalls basic subtraction facts with minuend less than 10</li> <li>Subtracts a 1-digit number from a multiple-digit number</li> <li>Subtracts a 2-digit number from a 2-digit number, with regrouping</li> <li>Subtracts 2- and/or 3-digit numbers with no regrouping</li> <li>Subtracts 3- or 4-digit numbers with regrouping</li> <li>Performs mental subtraction with numbers under 1000</li> <li>Subtracts multiple-digit numbers with no regrouping</li> <li>Uses counting by multiples for multiplication</li> <li>Instantly recalls basic multiplication facts where one factor is 6-12 and the other factor is 0-12</li> <li>Multiplies basic facts to 10 x 10 vertically</li> <li>Multiplies a 2-digit number by a 1-digit number with regrouping</li> <li>Multiplies a 2-digit number by a 2-digit number with no regrouping</li> <li>Uses manipulatives to divide a small set of objects into groups of equal size</li> <li>Uses sharing for division</li> <li>Models whole number multiplication and division algorithms (e.g., shows multiplication as repeated addition and division as repeated subtraction)</li> <li>Models multiplication and division algorithms using arrays (whole numbers)</li> <li>Instantly recalls division facts with dividend and divisors less than 10</li> <li>Identifies the missing operation symbol - 2-step number sentence</li> <li>Recognizes addition and subtraction fact families through 18</li> <li>Demonstrates an understanding of the associative property of addition</li> <li>Demonstrates an understanding of the zero property of multiplication</li> <li>Adds decimals to the hundredths place (same number of digits)</li> </ul>	<p>Operations on Numbers</p> <ul style="list-style-type: none"> <li>Adds 2-digit to 3-digit number with regrouping</li> <li>Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000</li> <li>Adds multiple-digit numbers, with regrouping, with sums over 1000</li> <li>Adds multiple-digit numbers with sums under 1000</li> <li>Uses a number line to construct subtraction facts with subtrahends and minuends through 20 (whole numbers)</li> <li>Adds and subtracts whole numbers using place value</li> <li>Subtracts 1-digit number from a 2-digit number with regrouping</li> <li>Subtracts a 2-digit number from a 2-digit number, with regrouping</li> <li>Subtracts a 2-digit number from a 3-digit number with a single regrouping</li> <li>Subtracts 3- or 4-digit numbers with regrouping</li> <li>Performs mental subtraction with numbers under 1000</li> <li>Performs mental subtraction with numbers 1000 and over</li> <li>Subtracts multiple-digit numbers with no regrouping</li> <li>Uses a number line to model multiplication (whole numbers)</li> <li>Instantly recalls basic multiplication facts where one factor is 6-12 and the other factor is 0-12</li> <li>Multiplies a 2- or 3-digit number by a 1-digit number with no regrouping</li> <li>Multiplies a 2-digit number by a 1-digit number with regrouping</li> <li>Multiplies a 3- or 4-digit number by a 1-digit number</li> <li>Multiplies a 2-digit number by a 2-digit number with no regrouping</li> <li>Multiplies a 3-digit number by a 2-digit number with no regrouping</li> <li>Performs mental computation with multiplication</li> <li>Uses manipulatives to divide a small set of objects into groups of equal size</li> <li>Uses repeated subtraction for division</li> <li>Models whole number multiplication and division algorithms (e.g., shows multiplication as repeated addition and division as repeated subtraction)</li> <li>Instantly recalls division facts with dividend and divisors less than 10</li> <li>Instantly recalls division facts with dividend and divisors less than 13</li> <li>Divides a 2-digit number by a 1-digit number with no remainder</li> <li>Identifies the missing operation symbol - 2-step number sentence</li> <li>Demonstrates an understanding of the commutative property of multiplication with simple problems</li> <li>Demonstrates an understanding of the zero property of multiplication</li> <li>Demonstrates an understanding of the multiplicative property of 1 (identity)</li> </ul>	<p>Operations on Numbers</p> <ul style="list-style-type: none"> <li>Adds multiple-digit numbers, with regrouping, with sums over 1000</li> <li>Adds multiple-digit numbers with sums under 1000</li> <li>Adds and subtracts whole numbers using place value</li> <li>Subtracts 3- or 4-digit numbers with regrouping</li> <li>Performs mental subtraction with numbers 1000 and over</li> <li>Subtracts numbers with 5 digits or more with regrouping</li> <li>Instantly recalls basic multiplication and division facts in a table</li> <li>Multiplies a 2-digit number by a 1-digit number with regrouping</li> <li>Multiplies a 3- or 4-digit number by a 1-digit number</li> <li>Multiplies multiple 1-digit numbers</li> <li>Multiplies a 2-digit number by a 2-digit number with regrouping</li> <li>Multiplies a 3-digit number by a 2-digit number with regrouping</li> <li>Performs mental computation with multiplication</li> <li>Multiplies a 2- or 3-digit number by multiples of 10 or 100</li> <li>Multiplies a 3-digit number by a 3-digit number</li> <li>Models whole number multiplication and division algorithms (e.g., uses physical materials to show 4 groups of 3 objects)</li> <li>Instantly recalls division facts with dividend and divisors less than 13</li> <li>Divides a 1-digit number by a 1-digit number with a remainder</li> <li>Divides a 2-digit number by a 1-digit number with no remainder</li> <li>Divides a 2-digit number or a 3-digit number by a 1-digit number with a remainder</li> <li>Performs mental computation with division</li> <li>Divides a 3-digit number by a 1-digit number with no remainder</li> <li>Divides a 4-digit number by a 1-digit number with no remainder</li> <li>Divides a 4-digit number by a 1-digit number with a remainder</li> <li>Divides a 2-digit number by a 2-digit number with a remainder</li> <li>Divides a 3-digit number by a multiple of 10</li> <li>Divides a 4-digit number by a 2-digit number</li> <li>Identifies the missing operation symbol - 2-step number sentence</li> <li>Demonstrates an understanding of the commutative property of addition</li> <li>Demonstrates an understanding of the zero property of addition (identity)</li> <li>Demonstrates an understanding of the commutative property of multiplication with simple problems</li> <li>Adds fractions with like denominators without reducing</li> <li>Adds whole numbers and fractions</li> </ul>

**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><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Subtracts decimals to the hundredths place (same number of digits) without regrouping</li> <li>Determines whether a set of objects has an odd or even number of elements</li> <li>Distinguishes between odd and even numbers</li> <li>Applies rules of divisibility by 5's</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Recognizes multiplication and division fact families</li> <li>Uses models to add and subtract fractions and connect the actions to algorithms</li> <li>Subtracts fractions with like denominators without reducing</li> <li>Adds decimals to the hundredths place (same number of digits)</li> <li>Adds decimals to the hundredths place in vertical format (not same number of digits)</li> <li>Adds decimals to the thousandths place vertically with and without regrouping</li> <li>Subtracts decimals to the hundredths place (same number of digits) without regrouping</li> <li>Subtracts decimals to the hundredths place (same number of digits) with regrouping</li> <li>Subtracts decimals to the thousandths place, vertically, with and without regrouping</li> <li>Multiplies a decimal by whole number</li> <li>Distinguishes between odd and even numbers</li> <li>Identifies numbers as composite</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Uses models to add and subtract fractions and connect the actions to algorithms</li> <li>Subtracts fractions with like denominators without reducing</li> <li>Subtracts mixed fractions with like denominators with no regrouping</li> <li>Multiplies a fraction by a fraction without reducing to simplest form (simple problem)</li> <li>Adds decimals to the thousandths place horizontally with and without regrouping</li> <li>Subtracts decimals to the hundredths place (same number of digits) with regrouping</li> <li>Subtracts decimals to the thousandths place, vertically, with and without regrouping</li> <li>Subtracts decimals through the hundred-thousandths place, vertically</li> <li>Multiplies a decimal by whole number</li> <li>Divides decimal by a whole number</li> <li>Determines multiples of a whole number</li> <li>Determines common multiples of whole numbers</li> <li>Applies rules of divisibility by 2's</li> </ul>
<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>Uses rounding to estimate answers to real-world problems involving addition of numbers less than 100 (whole numbers only)</li> <li>Solves real-world whole number addition problems with sums to 20 (result unknown) - with extraneous information given</li> <li>Solves real-world whole number addition problems with sums to 100 (result unknown)</li> <li>Solves real-world whole number addition problems with sums to 1000</li> <li>Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on)</li> <li>Solves real-world whole number problems involving subtraction with numbers under 20</li> <li>Solves real-world whole number problems involving subtraction with numbers 100 and under</li> <li>Solves real-world whole number problems involving subtraction with numbers under 1000</li> <li>Solves problems using the inverse relationship between addition and subtraction</li> <li>Solves word problems involving basic whole number multiplication facts to <math>10 \times 10</math></li> <li>Solves word problems with whole number division facts with dividend and divisors less than 11 involving money</li> <li>Rounds 2- and 3- digit whole numbers to the nearest ten</li> </ul>	<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with addition and subtraction (whole numbers only)</li> <li>Uses front end digits to estimate answers in addition and subtraction computations (whole numbers only)</li> <li>Uses rounding to estimate answers to addition and subtraction problems (whole numbers only)</li> <li>Solves real-world whole number addition problems with sums to 20 (result unknown) - with extraneous information given</li> <li>Solves real-world whole number addition problems with sums to 20 (change unknown)</li> <li>Solves real-world whole number addition problems with sums to 100 (start unknown)</li> <li>Solves whole number addition word problems with sums over 1000</li> <li>Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on)</li> <li>Solves real-world whole number problems involving subtraction with numbers 100 and under</li> <li>Solves real-world whole number problems involving subtraction with numbers under 1000</li> <li>Solves whole number subtraction word problems with numbers over 1000</li> </ul>	<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater with addition and subtraction (whole numbers only)</li> <li>Uses front end digits to estimate answers in addition and subtraction computations (whole numbers only)</li> <li>Uses front end estimation for multiplication and division computations (whole numbers only)</li> <li>Uses rounding to estimate answers to addition and subtraction problems (whole numbers only)</li> <li>Uses rounding to estimate answers to simple multiplication and division problems (whole numbers only)</li> <li>Solves real-world whole number addition problems with sums to 100 (start unknown)</li> <li>Uses strategies to determine 2 or more missing digits (addition/subtraction only)</li> <li>Solves real-world whole number problems involving subtraction with numbers 100 and under (analysis)</li> <li>Solves whole number subtraction word problems with numbers over 1000</li> <li>Solves problems using the inverse relationship between addition and subtraction</li> <li>Solves word problems involving whole number multiplication with numbers greater than <math>10 \times 10</math></li> </ul>

**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>Estimation and Problem Solving</p> <ul style="list-style-type: none"> <li>• Rounds 3-digit whole numbers to the nearest hundred</li> </ul>	<p>Estimation and Problem Solving</p> <ul style="list-style-type: none"> <li>• Solves problems using the inverse relationship between addition and subtraction</li> <li>• Solves word problems involving basic whole number multiplication facts to <math>10 \times 10</math></li> <li>• Solves word problems involving whole number multiplication with numbers greater than <math>10 \times 10</math></li> <li>• Uses strategies to determine 1 missing digit (multiplication/division only)</li> <li>• Solves word problems with whole number division facts with dividend and divisors less than 11</li> <li>• Solves simple word problems involving whole number division with remainder (e.g., 1-step, 1-digit divisor)</li> <li>• Rounds 2- and 3- digit whole numbers to the nearest ten</li> <li>• Rounds 3-digit whole numbers to the nearest hundred</li> </ul>	<p>Estimation and Problem Solving</p> <ul style="list-style-type: none"> <li>• Solves word problems with whole number division facts with dividend and divisors less than 11</li> <li>• Solves simple word problems involving whole number division with remainder (e.g., 1-step, 1-digit divisor)</li> <li>• Solves whole number word problems with division over <math>10 \times 10</math></li> <li>• Determines the remainder in a real-world problem (whole numbers)</li> <li>• Uses division for multiple-step real-world problems (whole numbers)</li> <li>• Solves real-world problems involving 2-step multiple operations, whole numbers only</li> <li>• Rounds 4-, 5-, and 6-digit whole numbers to the nearest ten</li> <li>• Rounds 4-, 5-, and 6-digit whole numbers to the nearest hundred</li> <li>• Rounds 4-, 5-, and 6-digit whole numbers to the nearest thousand</li> <li>• Rounds whole numbers to the nearest hundred thousand</li> <li>• Explains the rules for rounding</li> <li>• Uses number sense strategies to solve problems (addition/subtraction only)</li> <li>• Rounds decimals to the nearest whole number</li> </ul>
<p><i>New Vocabulary:</i> closest, digit, divisible, fourths, hundreds, million, nearest, odd number, one, row, seventh, ten thousand, unifix cubes</p>	<p><i>New Vocabulary:</i> billion, capacity, composite number, each, hundred million, prime number, quintillion, standard numeral, thousands, trillion</p>	<p><i>New Vocabulary:</i> biggest, common multiple, compatible numbers, expanded numeral, hundredth, mixed number, multiple, place value, plus</p>
<p><i>New Signs and Symbols:</i> { } set notation, &lt; less than, long division symbol</p>	<p><i>New Signs and Symbols:</i> \$ dollar sign, ft feet, &gt; greater than, R remainder</p>	<p><i>New Signs and Symbols:</i> ¢ cent sign</p>

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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><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Identifies the numeral and written name for whole numbers with a zero between digits to the ten thousands place</li> <li>Identifies the numeral and written name for whole numbers 10,000 to 100,000</li> <li>Identifies the numeral and written name for whole numbers over 100,000</li> <li>Identifies the numeral and written name for ordinal numbers 21st to 100th (e.g., 21st is twenty-first, and vice versa)</li> <li>Compares whole numbers through 999,999</li> <li>Compares whole numbers to 100, using the symbols for 'less than', 'equal to', or 'greater than' (&lt;, =, &gt;)</li> <li>Compares whole numbers through the thousands using the symbols &lt;, &gt;, or =</li> <li>Orders whole numbers less than 1000</li> <li>Orders whole numbers less than 10,000</li> <li>Identifies whole numbers under 100 given place value terms (e.g., 3 tens and 4 ones = 34)</li> <li>Identifies the place value and value of each digit in whole numbers through the thousands</li> <li>Identifies the place value and value of each digit in whole numbers through the hundred thousands</li> <li>Writes whole numbers in standard and expanded form through the hundreds</li> <li>Writes whole numbers in standard and expanded form through the thousands</li> <li>Represents <math>\frac{1}{3}</math> with a diagram or model</li> <li>Represents fractions with denominators other than 2, 3, 4 with a diagram or model</li> <li>Identifies <math>\frac{1}{4}</math> from a region or set</li> <li>Identifies <math>\frac{1}{3}</math> from a region or set</li> <li>Identifies <math>\frac{2}{3}</math> or <math>\frac{3}{3}</math> from a region or set</li> <li>Identifies tenths from a region or set</li> <li>Identifies a fraction (denominators other than 2, 3, 4, 8, 10) from a region or set</li> <li>Identifies equivalent fractions using visual representations</li> <li>Matches numeric and visual representation of equivalent fractions</li> <li>Writes the missing number in a proportion using basic facts</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Identifies the numeral and written name for whole numbers with a zero between digits to the ten thousands place</li> <li>Identifies the numeral and written name for whole numbers over 100,000</li> <li>Identifies a whole number that comes before and/or after a given number (over 100)</li> <li>Compares whole numbers through 999,999</li> <li>Orders whole numbers less than 10,000</li> <li>Writes equivalent forms of whole numbers using place value (e.g., <math>54 = 4</math> tens and 14 ones)</li> <li>Identifies the place value and value of each digit in whole numbers through the billions</li> <li>Writes whole numbers in standard and expanded form through the hundred thousands</li> <li>Writes whole numbers using place value terms and vice versa</li> <li>Identifies halves of a region using nonadjacent parts</li> <li>Identifies equivalent fractions using visual representations</li> <li>Expresses "1" in many different ways (e.g., <math>\frac{3}{3}</math>, <math>\frac{4}{4}</math>)</li> <li>Converts a basic fractional numeral to lowest terms (e.g., halves, thirds, quarters)</li> <li>Writes mixed numbers as improper fractions and improper fractions as mixed numbers</li> <li>Compares fractions (e.g., common denominator, 1 in the numerator, denominator is 2, 3, 4, 6, 8, 10)</li> <li>Orders fractions on a number line</li> <li>Identifies the place value and value of each digit to the tenths</li> <li>Expresses the equivalent form of a fraction, decimal, and/or percent (simple fraction)</li> <li>Writes the missing number in a proportion using basic facts</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Solves problems involving equivalent fractions</li> <li>Writes whole numbers in standard and expanded form through the hundred thousands</li> <li>Writes improper fractions and mixed numbers from a visual representation</li> <li>Identifies equivalent fractions using visual representations</li> <li>Identifies a fractions in lowest terms from a region or set</li> <li>Identifies eighths, reduced to lowest terms, from a region or set</li> <li>Expresses improper fractions as whole numbers (e.g., <math>\frac{4}{2}=2</math>)</li> <li>Determines simple equivalent fractions using multiples</li> <li>Converts fractions to lowest terms</li> <li>Writes mixed numbers as improper fractions and improper fractions as mixed numbers</li> <li>Compares fractions on a number line</li> <li>Compares fractions greater than or less than a given fraction using visual representations</li> <li>Compares fractions and mixed numbers</li> <li>Compares fractions and mixed numbers using symbols</li> <li>Orders fractions on a number line</li> <li>Represents a decimal to the hundredths place (e.g., three hundredths = 0.03)</li> <li>Compares and orders decimals to the thousandths place (same number of digits after decimal)</li> <li>Compares and orders decimals past the thousandths place</li> <li>Identifies the place value and value of each digit to the tenths</li> <li>Identifies an integer from a number line</li> <li>Expresses a simple fraction as a decimal</li> <li>Writes a simple mixed fraction as a decimal and vice versa</li> <li>Writes a basic percent as a fraction and vice versa (e.g., 10%, 25%, 50%, 100%)</li> <li>Expresses a percent as a fraction with 100 as the denominator and vice versa</li> <li>Writes a basic percent as a decimal and vice versa</li> <li>Expresses a percent as a decimal and vice versa</li> <li>Expresses the equivalent form of a fraction, decimal, and/or percent (simple fraction)</li> <li>Uses concrete and pictorial models to represent proportions</li> <li>Recognizes and writes proportions</li> </ul>
<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Adds 2-digit to 3-digit number with regrouping</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Adds multiple-digit numbers, with regrouping, with sums over 1000</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Subtracts numbers with 5 digits or more with regrouping</li> </ul>

**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><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>• Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000</li> <li>• Adds multiple-digit numbers, with regrouping, with sums over 1000</li> <li>• Adds multiple-digit numbers with sums under 1000</li> <li>• Uses a number line to construct subtraction facts with subtrahends and minuends through 20 (whole numbers)</li> <li>• Adds and subtracts whole numbers using place value</li> <li>• Subtracts 1-digit number from a 2-digit number with regrouping</li> <li>• Subtracts a 2-digit number from a 2-digit number, with regrouping</li> <li>• Subtracts a 2-digit number from a 3-digit number with a single regrouping</li> <li>• Subtracts 3- or 4-digit numbers with regrouping</li> <li>• Performs mental subtraction with numbers under 1000</li> <li>• Performs mental subtraction with numbers 1000 and over</li> <li>• Subtracts multiple-digit numbers with no regrouping</li> <li>• Uses a number line to model multiplication (whole numbers)</li> <li>• Instantly recalls basic multiplication facts where one factor is 6-12 and the other factor is 0-12</li> <li>• Multiplies a 2- or 3-digit number by a 1-digit number with no regrouping</li> <li>• Multiplies a 2-digit number by a 1-digit number with regrouping</li> <li>• Multiplies a 3- or 4-digit number by a 1-digit number</li> <li>• Multiplies a 2-digit number by a 2-digit number with no regrouping</li> <li>• Multiplies a 3-digit number by a 2-digit number with no regrouping</li> <li>• Performs mental computation with multiplication</li> <li>• Uses manipulatives to divide a small set of objects into groups of equal size</li> <li>• Uses repeated subtraction for division</li> <li>• Models whole number multiplication and division algorithms (e.g., shows multiplication as repeated addition and division as repeated subtraction)</li> <li>• Instantly recalls division facts with dividend and divisors less than 10</li> <li>• Instantly recalls division facts with dividend and divisors less than 13</li> <li>• Divides a 2-digit number by a 1-digit number with no remainder</li> <li>• Identifies the missing operation symbol - 2-step number sentence</li> <li>• Demonstrates an understanding of the commutative property of multiplication with simple problems</li> <li>• Demonstrates an understanding of the zero property of multiplication</li> <li>• Demonstrates an understanding of the multiplicative property of 1 (identity)</li> <li>• Recognizes multiplication and division fact families</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>• Adds multiple-digit numbers with sums under 1000</li> <li>• Adds and subtracts whole numbers using place value</li> <li>• Subtracts 3- or 4-digit numbers with regrouping</li> <li>• Performs mental subtraction with numbers 1000 and over</li> <li>• Subtracts numbers with 5 digits or more with regrouping</li> <li>• Instantly recalls basic multiplication and division facts in a table</li> <li>• Multiplies a 2-digit number by a 1-digit number with regrouping</li> <li>• Multiplies a 3- or 4-digit number by a 1-digit number</li> <li>• Multiplies multiple 1-digit numbers</li> <li>• Multiplies a 2-digit number by a 2-digit number with regrouping</li> <li>• Multiplies a 3-digit number by a 2-digit number with regrouping</li> <li>• Performs mental computation with multiplication</li> <li>• Multiplies a 2- or 3-digit number by multiples of 10 or 100</li> <li>• Multiplies a 3-digit number by a 3-digit number</li> <li>• Models whole number multiplication and division algorithms (e.g., uses physical materials to show 4 groups of 3 objects)</li> <li>• Instantly recalls division facts with dividend and divisors less than 13</li> <li>• Divides a 1-digit number by a 1-digit number with a remainder</li> <li>• Divides a 2-digit number by a 1-digit number with no remainder</li> <li>• Divides a 2-digit number or a 3-digit number by a 1-digit number with a remainder</li> <li>• Performs mental computation with division</li> <li>• Divides a 3-digit number by a 1-digit number with no remainder</li> <li>• Divides a 4-digit number by a 1-digit number with no remainder</li> <li>• Divides a 4-digit number by a 1-digit number with a remainder</li> <li>• Divides a 2-digit number by a 2-digit number with a remainder</li> <li>• Divides a 3-digit number by a multiple of 10</li> <li>• Divides a 4-digit number by a 2-digit number</li> <li>• Identifies the missing operation symbol - 2-step number sentence</li> <li>• Demonstrates an understanding of the commutative property of addition</li> <li>• Demonstrates an understanding of the zero property of addition (identity)</li> <li>• Demonstrates an understanding of the commutative property of multiplication with simple problems</li> <li>• Adds fractions with like denominators without reducing</li> <li>• Adds whole numbers and fractions</li> <li>• Uses models to add and subtract fractions and connect the actions to algorithms</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>• Instantly recalls basic multiplication and division facts in a table</li> <li>• Multiplies a 2-digit number by a 2-digit number with regrouping</li> <li>• Multiplies a 3-digit number by a 2-digit number with regrouping</li> <li>• Performs mental computation with multiplication</li> <li>• Multiplies a 3-digit number by a 3-digit number</li> <li>• Multiplies a 4- or more digit number by multiples of 100 or 1000</li> <li>• Multiplies multiple-digit numbers</li> <li>• Models whole number multiplication and division algorithms (e.g., uses physical materials to show 4 groups of 3 objects)</li> <li>• Divides a 2-digit number or a 3-digit number by a 1-digit number with a remainder</li> <li>• Performs mental computation with division</li> <li>• Divides a 4-digit number by a 1-digit number with no remainder</li> <li>• Divides a 4-digit number by a 1-digit number with a remainder</li> <li>• Divides a 3-digit number by a 2-digit number</li> <li>• Divides a 4-digit number by a 2-digit number</li> <li>• Solves problems using the inverse relationship between multiplication and division</li> <li>• Divides a whole number by a whole number and expresses the remainder as a decimal</li> <li>• Divides multiple-digit numbers</li> <li>• Uses appropriate algorithms to represent multiplication or division with whole numbers</li> <li>• Demonstrates an understanding of the inverse relationship between addition and subtraction</li> <li>• Demonstrates an understanding of the commutative property of multiplication with simple problems</li> <li>• Demonstrates an understanding of the associative property of multiplication</li> <li>• Demonstrates an understanding of the distributive property of multiplication by decomposing a term</li> <li>• Adds fractions with like denominators without reducing</li> <li>• Adds fractions with like denominators with reducing or converting to a mixed fraction</li> <li>• Adds fractions with unlike denominators without reducing</li> <li>• Adds mixed fractions with like denominators</li> <li>• Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths)</li> <li>• Subtracts simple fractions with unlike denominators without reducing (e.g., halves, quarters, thirds, eighths)</li> <li>• Subtracts fractions with unlike denominators without reducing</li> </ul>

**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><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>• Uses models to add and subtract fractions and connect the actions to algorithms</li> <li>• Subtracts fractions with like denominators without reducing</li> <li>• Adds decimals to the hundredths place (same number of digits)</li> <li>• Adds decimals to the hundredths place in vertical format (not same number of digits)</li> <li>• Adds decimals to the thousandths place vertically with and without regrouping</li> <li>• Subtracts decimals to the hundredths place (same number of digits) without regrouping</li> <li>• Subtracts decimals to the hundredths place (same number of digits) with regrouping</li> <li>• Subtracts decimals to the thousandths place, vertically, with and without regrouping</li> <li>• Multiplies a decimal by whole number</li> <li>• Distinguishes between odd and even numbers</li> <li>• Identifies numbers as composite</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>• Subtracts fractions with like denominators without reducing</li> <li>• Subtracts mixed fractions with like denominators with no regrouping</li> <li>• Multiplies a fraction by a fraction without reducing to simplest form (simple problem)</li> <li>• Adds decimals to the thousandths place horizontally with and without regrouping</li> <li>• Subtracts decimals to the hundredths place (same number of digits) with regrouping</li> <li>• Subtracts decimals to the thousandths place, vertically, with and without regrouping</li> <li>• Subtracts decimals through the hundred-thousandths place, vertically</li> <li>• Multiplies a decimal by whole number</li> <li>• Divides decimal by a whole number</li> <li>• Determines multiples of a whole number</li> <li>• Determines common multiples of whole numbers</li> <li>• Applies rules of divisibility by 2's</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>• Subtracts mixed fractions with like denominators with no regrouping</li> <li>• Subtracts mixed fractions with unlike denominators with no regrouping</li> <li>• Uses models to multiply and divide fractions and connect the actions to algorithms</li> <li>• Multiplies a fraction by a fraction where reducing to simplest form is necessary</li> <li>• Multiplies a fraction by a whole number</li> <li>• Adds decimals to the hundredths place in horizontal format (not same number of digits)</li> <li>• Adds decimals to the thousandths place horizontally with and without regrouping</li> <li>• Adds decimals through the hundred-thousandths place</li> <li>• Subtracts decimals to the thousandths place, vertically, with the zero missing in the ones place</li> <li>• Subtracts decimals to the thousandths place, horizontally, with and without regrouping</li> <li>• Multiplies a decimal by a decimal, vertical form (factors to tenths or hundredths)</li> <li>• Multiplies a decimal by a decimal (factors to hundredths)</li> <li>• Divides decimal by a whole number</li> <li>• Recognizes characteristics of odd and even numbers</li> <li>• Determines factors of whole numbers</li> <li>• Determines common multiples of whole numbers</li> <li>• Identifies numbers as prime</li> <li>• Identifies common factors of two or more numbers</li> </ul>
<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>• Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with addition and subtraction (whole numbers only)</li> <li>• Uses front end digits to estimate answers in addition and subtraction computations (whole numbers only)</li> <li>• Uses rounding to estimate answers to addition and subtraction problems (whole numbers only)</li> <li>• Solves real-world whole number addition problems with sums to 20 (result unknown) - with extraneous information given</li> <li>• Solves real-world whole number addition problems with sums to 20 (change unknown)</li> <li>• Solves real-world whole number addition problems with sums to 100 (start unknown)</li> <li>• Solves whole number addition word problems with sums over 1000</li> </ul>	<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>• Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater with addition and subtraction (whole numbers only)</li> <li>• Uses front end digits to estimate answers in addition and subtraction computations (whole numbers only)</li> <li>• Uses front end estimation for multiplication and division computations (whole numbers only)</li> <li>• Uses rounding to estimate answers to addition and subtraction problems (whole numbers only)</li> <li>• Uses rounding to estimate answers to simple multiplication and division problems (whole numbers only)</li> <li>• Solves real-world whole number addition problems with sums to 100 (start unknown)</li> <li>• Uses strategies to determine 2 or more missing digits (addition/subtraction only)</li> </ul>	<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>• Uses rounding to estimate answers to real-world problems involving multiplication and division of numbers less than 100 (whole numbers only)</li> <li>• Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with multiplication and division (whole numbers only)</li> <li>• Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater using multiplication and division (whole numbers only)</li> <li>• Uses rounding to estimate answers to difficult multiplication and division problems (whole numbers only)</li> <li>• Uses referent numbers to estimate answers when adding and subtracting fractions and mixed numbers</li> <li>• Uses strategies to determine 2 or more missing digits (addition/subtraction only)</li> </ul>

**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><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>• Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on)</li> <li>• Solves real-world whole number problems involving subtraction with numbers 100 and under</li> <li>• Solves real-world whole number problems involving subtraction with numbers under 1000</li> <li>• Solves whole number subtraction word problems with numbers over 1000</li> <li>• Solves problems using the inverse relationship between addition and subtraction</li> <li>• Solves word problems involving basic whole number multiplication facts to 10 x 10</li> <li>• Solves word problems involving whole number multiplication with numbers greater than 10 x 10</li> <li>• Uses strategies to determine 1 missing digit (multiplication/division only)</li> <li>• Solves word problems with whole number division facts with dividend and divisors less than 11</li> <li>• Solves simple word problems involving whole number division with remainder (e.g., 1-step, 1-digit divisor)</li> <li>• Rounds 2- and 3- digit whole numbers to the nearest ten</li> <li>• Rounds 3-digit whole numbers to the nearest hundred</li> </ul>	<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>• Solves real-world whole number problems involving subtraction with numbers 100 and under (analysis)</li> <li>• Solves whole number subtraction word problems with numbers over 1000</li> <li>• Solves problems using the inverse relationship between addition and subtraction</li> <li>• Solves word problems involving whole number multiplication with numbers greater than 10 x 10</li> <li>• Solves word problems with whole number division facts with dividend and divisors less than 11</li> <li>• Solves simple word problems involving whole number division with remainder (e.g., 1-step, 1-digit divisor)</li> <li>• Solves whole number word problems with division over 10 x 10</li> <li>• Determines the remainder in a real-world problem (whole numbers)</li> <li>• Uses division for multiple-step real-world problems (whole numbers)</li> <li>• Solves real-world problems involving 2-step multiple operations, whole numbers only</li> <li>• Rounds 4-, 5-, and 6-digit whole numbers to the nearest ten</li> <li>• Rounds 4-, 5-, and 6-digit whole numbers to the nearest hundred</li> <li>• Rounds 4-, 5-, and 6-digit whole numbers to the nearest thousand</li> <li>• Rounds whole numbers to the nearest hundred thousand</li> <li>• Explains the rules for rounding</li> <li>• Uses number sense strategies to solve problems (addition/subtraction only)</li> <li>• Rounds decimals to the nearest whole number</li> </ul>	<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>• Uses multiplication strategies to explain computation (e.g., doubles, 9-patterns, decomposing, partial products)</li> <li>• Solves whole number word problems with division over 10 x 10</li> <li>• Solves complex word problems involving whole number division with remainder (e.g., 2-step, 2-digit divisor)</li> <li>• Solves real-world problems involving 2-step multiple operations, whole numbers only</li> <li>• Solves real-world multiple-step problems involving whole numbers</li> <li>• Predicts the relative size of the answer when adding whole numbers</li> <li>• Predicts the relative size of the answer when subtracting whole numbers</li> <li>• Predicts the relative size of the answer when computing with 10's, 100's, 1000's</li> <li>• Predicts the relative size of the answer when multiplying whole numbers</li> <li>• Rounds 4-, 5-, and 6-digit whole numbers to the nearest hundred</li> <li>• Rounds 4-, 5-, and 6-digit whole numbers to the nearest thousand</li> <li>• Rounds 4-, 5-, and 6-digit whole numbers to the nearest ten thousand</li> <li>• Rounds decimals to the nearest whole number</li> <li>• Rounds decimals to the nearest tenth</li> </ul>
<p><i>New Vocabulary:</i> billion, capacity, composite number, each, hundred million, prime number, quintillion, standard numeral, thousands, trillion</p>	<p><i>New Vocabulary:</i> biggest, common multiple, compatible numbers, expanded numeral, hundredth, mixed number, multiple, place value, plus</p>	<p><i>New Vocabulary:</i> common factor, decimal form, lowest term, lowest terms, negative, positive, proof, reduce</p>
<p><i>New Signs and Symbols:</i> \$ dollar sign, ft feet, &gt; greater than, R remainder</p>	<p><i>New Signs and Symbols:</i> ¢ cent sign</p>	<p><i>New Signs and Symbols:</i> ( ) parenthesis around an integer, ? a variable, - negative number, - negative sign, not equal to, % percent</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><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Identifies the numeral and written name for whole numbers with a zero between digits to the ten thousands place</li> <li>Identifies the numeral and written name for whole numbers over 100,000</li> <li>Identifies a whole number that comes before and/or after a given number (over 100)</li> <li>Compares whole numbers through 999,999</li> <li>Orders whole numbers less than 10,000</li> <li>Writes equivalent forms of whole numbers using place value (e.g., 54 = 4 tens and 14 ones)</li> <li>Identifies the place value and value of each digit in whole numbers through the billions</li> <li>Writes whole numbers in standard and expanded form through the hundred thousands</li> <li>Writes whole numbers using place value terms and vice versa</li> <li>Identifies halves of a region using nonadjacent parts</li> <li>Identifies equivalent fractions using visual representations</li> <li>Expresses "1" in many different ways (e.g., 3/3, 4/4)</li> <li>Converts a basic fractional numeral to lowest terms (e.g., halves, thirds, quarters)</li> <li>Writes mixed numbers as improper fractions and improper fractions as mixed numbers</li> <li>Compares fractions (e.g., common denominator, 1 in the numerator, denominator is 2, 3, 4, 6, 8, 10)</li> <li>Orders fractions on a number line</li> <li>Identifies the place value and value of each digit to the tenths</li> <li>Expresses the equivalent form of a fraction, decimal, and/or percent (simple fraction)</li> <li>Writes the missing number in a proportion using basic facts</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Solves problems involving equivalent fractions</li> <li>Writes whole numbers in standard and expanded form through the hundred thousands</li> <li>Writes improper fractions and mixed numbers from a visual representation</li> <li>Identifies equivalent fractions using visual representations</li> <li>Identifies a fractions in lowest terms from a region or set</li> <li>Identifies eighths, reduced to lowest terms, from a region or set</li> <li>Expresses improper fractions as whole numbers (e.g., 4/2=2)</li> <li>Determines simple equivalent fractions using multiples</li> <li>Converts fractions to lowest terms</li> <li>Writes mixed numbers as improper fractions and improper fractions as mixed numbers</li> <li>Compares fractions on a number line</li> <li>Compares fractions greater than or less than a given fraction using visual representations</li> <li>Compares fractions and mixed numbers</li> <li>Compares fractions and mixed numbers using symbols</li> <li>Orders fractions on a number line</li> <li>Represents a decimal to the hundredths place (e.g., three hundredths = 0.03)</li> <li>Compares and orders decimals to the thousandths place (same number of digits after decimal)</li> <li>Compares and orders decimals past the thousandths place</li> <li>Identifies the place value and value of each digit to the tenths</li> <li>Identifies an integer from a number line</li> <li>Expresses a simple fraction as a decimal</li> <li>Writes a simple mixed fraction as a decimal and vice versa</li> <li>Writes a basic percent as a fraction and vice versa (e.g., 10%, 25%, 50%, 100%)</li> <li>Expresses a percent as a fraction with 100 as the denominator and vice versa</li> <li>Writes a basic percent as a decimal and vice versa</li> <li>Expresses a percent as a decimal and vice versa</li> <li>Expresses the equivalent form of a fraction, decimal, and/or percent (simple fraction)</li> <li>Uses concrete and pictorial models to represent proportions</li> <li>Recognizes and writes proportions</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Writes equivalent forms of whole numbers using place value (numbers 100 or greater) (e.g., 253 = 2 hundreds, 5 tens, and 3 ones)</li> <li>Writes equivalent forms of whole numbers using place value (numbers 100 or greater) (e.g., 253 = 1 hundred, 15 tens, and 3 ones)</li> <li>Writes whole numbers in standard and exponential form</li> <li>Identifies a fractions in lowest terms from a region or set</li> <li>Determines simple equivalent fractions using multiples</li> <li>Determines equivalent fractions using multiples</li> <li>Compares fractions (e.g., comparing numerators and denominators)</li> <li>Represents a decimal to thousandths place (e.g., three thousandths = 0.003)</li> <li>Represents a decimal to the hundred thousandths place - (e.g., three hundred thousandths = 0.00003)</li> <li>Compares and orders decimals to the thousandths place (same number of digits after decimal)</li> <li>Compares and orders decimals to the hundredths place (not same number of digits after decimal)</li> <li>Compares and orders decimals to the thousandths place (not same number of digits after decimal)</li> <li>Compares and orders decimals past the thousandths place</li> <li>Identifies the place value and value of each digit to the hundredths and thousandths</li> <li>Identifies the place value and value of each digit in numbers through the ten thousandths and beyond</li> <li>Writes a simple mixed fraction as a decimal and vice versa</li> <li>Expresses a percent as a fraction and vice versa</li> <li>Uses concrete and pictorial models to represent ratios</li> <li>Writes the missing number in a proportion with numbers other than basic facts (e.g., 5/13=?/117)</li> </ul>
<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Adds multiple-digit numbers, with regrouping, with sums over 1000</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Subtracts numbers with 5 digits or more with regrouping</li> </ul>	<p><b>Operations on Numbers</b></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>Operations on Numbers</p> <ul style="list-style-type: none"> <li>• Adds multiple-digit numbers with sums under 1000</li> <li>• Adds and subtracts whole numbers using place value</li> <li>• Subtracts 3- or 4-digit numbers with regrouping</li> <li>• Performs mental subtraction with numbers 1000 and over</li> <li>• Subtracts numbers with 5 digits or more with regrouping</li> <li>• Instantly recalls basic multiplication and division facts in a table</li> <li>• Multiplies a 2-digit number by a 1-digit number with regrouping</li> <li>• Multiplies a 3- or 4-digit number by a 1-digit number</li> <li>• Multiplies multiple 1-digit numbers</li> <li>• Multiplies a 2-digit number by a 2-digit number with regrouping</li> <li>• Multiplies a 3-digit number by a 2-digit number with regrouping</li> <li>• Performs mental computation with multiplication</li> <li>• Multiplies a 2- or 3-digit number by multiples of 10 or 100</li> <li>• Multiplies a 3-digit number by a 3-digit number</li> <li>• Models whole number multiplication and division algorithms (e.g., uses physical materials to show 4 groups of 3 objects)</li> <li>• Instantly recalls division facts with dividend and divisors less than 13</li> <li>• Divides a 1-digit number by a 1-digit number with a remainder</li> <li>• Divides a 2-digit number by a 1-digit number with no remainder</li> <li>• Divides a 2-digit number or a 3-digit number by a 1-digit number with a remainder</li> <li>• Performs mental computation with division</li> <li>• Divides a 3-digit number by a 1-digit number with no remainder</li> <li>• Divides a 4-digit number by a 1-digit number with no remainder</li> <li>• Divides a 4-digit number by a 1-digit number with a remainder</li> <li>• Divides a 2-digit number by a 2-digit number with a remainder</li> <li>• Divides a 3-digit number by a multiple of 10</li> <li>• Divides a 4-digit number by a 2-digit number</li> <li>• Identifies the missing operation symbol - 2-step number sentence</li> <li>• Demonstrates an understanding of the commutative property of addition</li> <li>• Demonstrates an understanding of the zero property of addition (identity)</li> <li>• Demonstrates an understanding of the commutative property of multiplication with simple problems</li> <li>• Adds fractions with like denominators without reducing</li> <li>• Adds whole numbers and fractions</li> <li>• Uses models to add and subtract fractions and connect the actions to algorithms</li> </ul>	<p>Operations on Numbers</p> <ul style="list-style-type: none"> <li>• Instantly recalls basic multiplication and division facts in a table</li> <li>• Multiplies a 2-digit number by a 2-digit number with regrouping</li> <li>• Multiplies a 3-digit number by a 2-digit number with regrouping</li> <li>• Performs mental computation with multiplication</li> <li>• Multiplies a 3-digit number by a 3-digit number</li> <li>• Multiplies a 4- or more digit number by multiples of 100 or 1000</li> <li>• Multiplies multiple-digit numbers</li> <li>• Models whole number multiplication and division algorithms (e.g., uses physical materials to show 4 groups of 3 objects)</li> <li>• Divides a 2-digit number or a 3-digit number by a 1-digit number with a remainder</li> <li>• Performs mental computation with division</li> <li>• Divides a 4-digit number by a 1-digit number with no remainder</li> <li>• Divides a 4-digit number by a 1-digit number with a remainder</li> <li>• Divides a 3-digit number by a 2-digit number</li> <li>• Divides a 4-digit number by a 2-digit number</li> <li>• Solves problems using the inverse relationship between multiplication and division</li> <li>• Divides a whole number by a whole number and expresses the remainder as a decimal</li> <li>• Divides multiple-digit numbers</li> <li>• Uses appropriate algorithms to represent multiplication or division with whole numbers</li> <li>• Demonstrates an understanding of the inverse relationship between addition and subtraction</li> <li>• Demonstrates an understanding of the commutative property of multiplication with simple problems</li> <li>• Demonstrates an understanding of the associative property of multiplication</li> <li>• Demonstrates an understanding of the distributive property of multiplication by decomposing a term</li> <li>• Adds fractions with like denominators without reducing</li> <li>• Adds fractions with like denominators with reducing or converting to a mixed fraction</li> <li>• Adds fractions with unlike denominators without reducing</li> <li>• Adds mixed fractions with like denominators</li> <li>• Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths)</li> <li>• Subtracts simple fractions with unlike denominators without reducing (e.g., halves, quarters, thirds, eighths)</li> <li>• Subtracts fractions with unlike denominators without reducing</li> </ul>	<p>Operations on Numbers</p> <ul style="list-style-type: none"> <li>• Models algorithms using place value concepts (addition and subtraction with whole numbers)</li> <li>• Multiplies multiple-digit numbers</li> <li>• Models algorithms using place value concepts (multiplication and division with whole numbers)</li> <li>• Divides a 4-digit number by a 2-digit number</li> <li>• Divides multiple-digit numbers</li> <li>• Uses appropriate algorithms to represent multiplication or division with whole numbers</li> <li>• Demonstrates an understanding of the commutative property of multiplication with complex problems (e.g., parenthesis, 3 factors)</li> <li>• Adds fractions with like denominators with reducing or converting to a mixed fraction</li> <li>• Adds fractions with unlike denominators without reducing</li> <li>• Adds fractions with unlike denominators with reducing or converting to a mixed fraction</li> <li>• Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths)</li> <li>• Adds whole numbers, fractions, and mixed fractions without reducing</li> <li>• Adds mixed fractions where converting from improper fractions is necessary</li> <li>• Subtracts fractions with like denominators with reducing</li> <li>• Subtracts fractions with unlike denominators without reducing</li> <li>• Subtracts fractions with unlike denominators with reducing</li> <li>• Subtracts mixed fractions with unlike denominators with no regrouping</li> <li>• Subtracts whole numbers, fractions, and mixed fractions</li> <li>• Subtracts whole numbers, fractions, and mixed fractions with regrouping</li> <li>• Uses models to multiply and divide fractions and connect the actions to algorithms</li> <li>• Multiplies a fraction by a fraction without reducing to simplest form (complex problem)</li> <li>• Multiplies a fraction by a fraction where reducing to simplest form is necessary</li> <li>• Multiplies a fraction by a whole number</li> <li>• Multiplies mixed fractions</li> <li>• Divides a fraction by a fraction</li> <li>• Divides a mixed fraction by a fraction</li> <li>• Adds decimals to the hundredths place in horizontal format (not same number of digits)</li> <li>• Adds decimals through the hundred-thousandths place</li> </ul>

**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><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Subtracts fractions with like denominators without reducing</li> <li>Subtracts mixed fractions with like denominators with no regrouping</li> <li>Multiplies a fraction by a fraction without reducing to simplest form (simple problem)</li> <li>Adds decimals to the thousandths place horizontally with and without regrouping</li> <li>Subtracts decimals to the hundredths place (same number of digits) with regrouping</li> <li>Subtracts decimals to the thousandths place, vertically, with and without regrouping</li> <li>Subtracts decimals through the hundred-thousandths place, vertically</li> <li>Multiplies a decimal by whole number</li> <li>Divides decimal by a whole number</li> <li>Determines multiples of a whole number</li> <li>Determines common multiples of whole numbers</li> <li>Applies rules of divisibility by 2's</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Subtracts mixed fractions with like denominators with no regrouping</li> <li>Subtracts mixed fractions with unlike denominators with no regrouping</li> <li>Uses models to multiply and divide fractions and connect the actions to algorithms</li> <li>Multiplies a fraction by a fraction where reducing to simplest form is necessary</li> <li>Multiplies a fraction by a whole number</li> <li>Adds decimals to the hundredths place in horizontal format (not same number of digits)</li> <li>Adds decimals to the thousandths place horizontally with and without regrouping</li> <li>Adds decimals through the hundred-thousandths place</li> <li>Subtracts decimals to the thousandths place, vertically, with the zero missing in the ones place</li> <li>Subtracts decimals to the thousandths place, horizontally, with and without regrouping</li> <li>Multiplies a decimal by a decimal, vertical form (factors to tenths or hundredths)</li> <li>Multiplies a decimal by a decimal (factors to hundredths)</li> <li>Divides decimal by a whole number</li> <li>Recognizes characteristics of odd and even numbers</li> <li>Determines factors of whole numbers</li> <li>Determines common multiples of whole numbers</li> <li>Identifies numbers as prime</li> <li>Identifies common factors of two or more numbers</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Subtracts decimals to the hundredths place (not same number of digits)</li> <li>Subtracts decimals to the thousandths place, horizontally, with and without regrouping</li> <li>Subtracts decimals through the hundred-thousandths place, horizontally</li> <li>Subtracts a decimal from a whole number, horizontally</li> <li>Multiplies a decimal by a decimal, vertical form (factors to tenths or hundredths)</li> <li>Multiplies a decimal by a decimal (factors to hundredths)</li> <li>Multiplies a decimal by 10, 100, 1000</li> <li>Multiplies a decimal by a decimal (factors to thousandths)</li> <li>Divides a decimal by 10, 100, 1000</li> <li>Divides a decimal by a decimal</li> <li>Recognizes characteristics of odd and even numbers</li> <li>Determines factors of whole numbers</li> <li>Uses multiple number theory concepts to solve problems (e.g., factors, digits, odd/even, divisibility)</li> <li>Determines common denominators of fractions</li> <li>Uses factor and multiple concepts to solve simple problems</li> <li>Identifies common factors of two or more numbers</li> </ul>
<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater with addition and subtraction (whole numbers only)</li> <li>Uses front end digits to estimate answers in addition and subtraction computations (whole numbers only)</li> <li>Uses front end estimation for multiplication and division computations (whole numbers only)</li> <li>Uses rounding to estimate answers to addition and subtraction problems (whole numbers only)</li> <li>Uses rounding to estimate answers to simple multiplication and division problems (whole numbers only)</li> <li>Solves real-world whole number addition problems with sums to 100 (start unknown)</li> <li>Uses strategies to determine 2 or more missing digits (addition/subtraction only)</li> </ul>	<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>Uses rounding to estimate answers to real-world problems involving multiplication and division of numbers less than 100 (whole numbers only)</li> <li>Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with multiplication and division (whole numbers only)</li> <li>Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater using multiplication and division (whole numbers only)</li> <li>Uses rounding to estimate answers to difficult multiplication and division problems (whole numbers only)</li> <li>Uses referent numbers to estimate answers when adding and subtracting fractions and mixed numbers</li> <li>Uses strategies to determine 2 or more missing digits (addition/subtraction only)</li> </ul>	<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>Uses rounding to estimate answers to real-world problems involving multiplication and division of numbers less than 100 (whole numbers only)</li> <li>Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with multiplication and division (whole numbers only)</li> <li>Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater using multiplication and division (whole numbers only)</li> <li>Uses rounding to estimate answers to real-world problems involving fractions and mixed numbers</li> <li>Uses estimation to solve problems involving fractions and mixed numbers</li> <li>Solves complex word problems involving whole number division with remainder (e.g., 2-step, 2-digit divisor)</li> </ul>

**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><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>Solves real-world whole number problems involving subtraction with numbers 100 and under (analysis)</li> <li>Solves whole number subtraction word problems with numbers over 1000</li> <li>Solves problems using the inverse relationship between addition and subtraction</li> <li>Solves word problems involving whole number multiplication with numbers greater than <math>10 \times 10</math></li> <li>Solves word problems with whole number division facts with dividend and divisors less than 11</li> <li>Solves simple word problems involving whole number division with remainder (e.g., 1-step, 1-digit divisor)</li> <li>Solves whole number word problems with division over <math>10 \times 10</math></li> <li>Determines the remainder in a real-world problem (whole numbers)</li> <li>Uses division for multiple-step real-world problems (whole numbers)</li> <li>Solves real-world problems involving 2-step multiple operations, whole numbers only</li> <li>Rounds 4-, 5-, and 6-digit whole numbers to the nearest ten</li> <li>Rounds 4-, 5-, and 6-digit whole numbers to the nearest hundred</li> <li>Rounds 4-, 5-, and 6-digit whole numbers to the nearest thousand</li> <li>Rounds whole numbers to the nearest hundred thousand</li> <li>Explains the rules for rounding</li> <li>Uses number sense strategies to solve problems (addition/subtraction only)</li> <li>Rounds decimals to the nearest whole number</li> </ul>	<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>Uses multiplication strategies to explain computation (e.g., doubles, 9-patterns, decomposing, partial products)</li> <li>Solves whole number word problems with division over <math>10 \times 10</math></li> <li>Solves complex word problems involving whole number division with remainder (e.g., 2-step, 2-digit divisor)</li> <li>Solves real-world problems involving 2-step multiple operations, whole numbers only</li> <li>Solves real-world multiple-step problems involving whole numbers</li> <li>Predicts the relative size of the answer when adding whole numbers</li> <li>Predicts the relative size of the answer when subtracting whole numbers</li> <li>Predicts the relative size of the answer when computing with 10's, 100's, 1000's</li> <li>Predicts the relative size of the answer when multiplying whole numbers</li> <li>Rounds 4-, 5-, and 6-digit whole numbers to the nearest hundred</li> <li>Rounds 4-, 5-, and 6-digit whole numbers to the nearest thousand</li> <li>Rounds 4-, 5-, and 6-digit whole numbers to the nearest ten thousand</li> <li>Rounds decimals to the nearest whole number</li> <li>Rounds decimals to the nearest tenth</li> </ul>	<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>Solves real-world multiple-step problems involving whole numbers</li> <li>Predicts the relative size of the answer when adding whole numbers</li> <li>Predicts the relative size of the answer when subtracting whole numbers</li> <li>Predicts the relative size of the answer when dividing whole numbers</li> <li>Rounds whole numbers to the nearest million</li> <li>Uses number sense strategies to judge the reasonableness of given answers (multiplication/division only)</li> <li>Rounds decimals to the nearest hundredth</li> <li>Rounds decimals to nearest thousandth</li> <li>Rounds decimals to nearest ten-thousandth</li> </ul>
<p><i>New Vocabulary:</i> biggest, common multiple, compatible numbers, expanded numeral, hundredth, mixed number, multiple, place value, plus</p>	<p><i>New Vocabulary:</i> common factor, decimal form, lowest term, lowest terms, negative, positive, proof, reduce</p>	<p><i>New Vocabulary:</i> common denominator, expanded notation, least common denominator, lowest common denominator, range, ten million, ten thousandth</p>
<p><i>New Signs and Symbols:</i> ¢ cent sign</p>	<p><i>New Signs and Symbols:</i> ( ) parenthesis around an integer, ? a variable, - negative number, - negative sign, not equal to, % percent</p>	<p><i>New Signs and Symbols:</i> None</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
<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Solves problems involving equivalent fractions</li> <li>Writes whole numbers in standard and expanded form through the hundred thousands</li> <li>Writes improper fractions and mixed numbers from a visual representation</li> <li>Identifies equivalent fractions using visual representations</li> <li>Identifies a fractions in lowest terms from a region or set</li> <li>Identifies eighths, reduced to lowest terms, from a region or set</li> <li>Expresses improper fractions as whole numbers (e.g., <math>4/2=2</math>)</li> <li>Determines simple equivalent fractions using multiples</li> <li>Converts fractions to lowest terms</li> <li>Writes mixed numbers as improper fractions and improper fractions as mixed numbers</li> <li>Compares fractions on a number line</li> <li>Compares fractions greater than or less than a given fraction using visual representations</li> <li>Compares fractions and mixed numbers</li> <li>Compares fractions and mixed numbers using symbols</li> <li>Orders fractions on a number line</li> <li>Represents a decimal to the hundredths place (e.g., three hundredths = 0.03)</li> <li>Compares and orders decimals to the thousandths place (same number of digits after decimal)</li> <li>Compares and orders decimals past the thousandths place</li> <li>Identifies the place value and value of each digit to the tenths</li> <li>Identifies an integer from a number line</li> <li>Expresses a simple fraction as a decimal</li> <li>Writes a simple mixed fraction as a decimal and vice versa</li> <li>Writes a basic percent as a fraction and vice versa (e.g., 10%, 25%, 50%, 100%)</li> <li>Expresses a percent as a fraction with 100 as the denominator and vice versa</li> <li>Writes a basic percent as a decimal and vice versa</li> <li>Expresses a percent as a decimal and vice versa</li> <li>Expresses the equivalent form of a fraction, decimal, and/or percent (simple fraction)</li> <li>Uses concrete and pictorial models to represent proportions</li> <li>Recognizes and writes proportions</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Writes equivalent forms of whole numbers using place value (numbers 100 or greater) (e.g., <math>253 = 2</math> hundreds, 5 tens, and 3 ones)</li> <li>Writes equivalent forms of whole numbers using place value (numbers 100 or greater) (e.g., <math>253 = 1</math> hundred, 15 tens, and 3 ones)</li> <li>Writes whole numbers in standard and exponential form</li> <li>Identifies a fractions in lowest terms from a region or set</li> <li>Determines simple equivalent fractions using multiples</li> <li>Determines equivalent fractions using multiples</li> <li>Compares fractions (e.g., comparing numerators and denominators)</li> <li>Represents a decimal to thousandths place (e.g., three thousandths = 0.003)</li> <li>Represents a decimal to the hundred thousandths place - (e.g., three hundred thousandths = 0.00003)</li> <li>Compares and orders decimals to the thousandths place (same number of digits after decimal)</li> <li>Compares and orders decimals to the hundredths place (not same number of digits after decimal)</li> <li>Compares and orders decimals to the thousandths place (not same number of digits after decimal)</li> <li>Compares and orders decimals past the thousandths place</li> <li>Identifies the place value and value of each digit to the hundredths and thousandths</li> <li>Identifies the place value and value of each digit in numbers through the ten thousandths and beyond</li> <li>Writes a simple mixed fraction as a decimal and vice versa</li> <li>Expresses a percent as a fraction and vice versa</li> <li>Uses concrete and pictorial models to represent ratios</li> <li>Writes the missing number in a proportion with numbers other than basic facts (e.g., <math>5/13=?/117</math>)</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Solves problems involving equivalent fractions (analysis)</li> <li>Writes whole numbers in standard and exponential form</li> <li>Compares fractions (e.g., comparing numerators and denominators)</li> <li>Expresses a percent as a fraction and vice versa</li> <li>Identifies the ratio from a given real-world situation</li> </ul>
<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Subtracts numbers with 5 digits or more with regrouping</li> </ul>	<p><b>Operations on Numbers</b></p>	<p><b>Operations on Numbers</b></p>

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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><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Instantly recalls basic multiplication and division facts in a table</li> <li>Multiplies a 2-digit number by a 2-digit number with regrouping</li> <li>Multiplies a 3-digit number by a 2-digit number with regrouping</li> <li>Performs mental computation with multiplication</li> <li>Multiplies a 3-digit number by a 3-digit number</li> <li>Multiplies a 4- or more digit number by multiples of 100 or 1000</li> <li>Multiplies multiple-digit numbers</li> <li>Models whole number multiplication and division algorithms (e.g., uses physical materials to show 4 groups of 3 objects)</li> <li>Divides a 2-digit number or a 3-digit number by a 1-digit number with a remainder</li> <li>Performs mental computation with division</li> <li>Divides a 4-digit number by a 1-digit number with no remainder</li> <li>Divides a 4-digit number by a 1-digit number with a remainder</li> <li>Divides a 3-digit number by a 2-digit number</li> <li>Divides a 4-digit number by a 2-digit number</li> <li>Solves problems using the inverse relationship between multiplication and division</li> <li>Divides a whole number by a whole number and expresses the remainder as a decimal</li> <li>Divides multiple-digit numbers</li> <li>Uses appropriate algorithms to represent multiplication or division with whole numbers</li> <li>Demonstrates an understanding of the inverse relationship between addition and subtraction</li> <li>Demonstrates an understanding of the commutative property of multiplication with simple problems</li> <li>Demonstrates an understanding of the associative property of multiplication</li> <li>Demonstrates an understanding of the distributive property of multiplication by decomposing a term</li> <li>Adds fractions with like denominators without reducing</li> <li>Adds fractions with like denominators with reducing or converting to a mixed fraction</li> <li>Adds fractions with unlike denominators without reducing</li> <li>Adds mixed fractions with like denominators</li> <li>Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths)</li> <li>Subtracts simple fractions with unlike denominators without reducing (e.g., halves, quarters, thirds, eighths)</li> <li>Subtracts fractions with unlike denominators without reducing</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Models algorithms using place value concepts (addition and subtraction with whole numbers)</li> <li>Multiplies multiple-digit numbers</li> <li>Models algorithms using place value concepts (multiplication and division with whole numbers)</li> <li>Divides a 4-digit number by a 2-digit number</li> <li>Divides multiple-digit numbers</li> <li>Uses appropriate algorithms to represent multiplication or division with whole numbers</li> <li>Demonstrates an understanding of the commutative property of multiplication with complex problems (e.g., parenthesis, 3 factors)</li> <li>Adds fractions with like denominators with reducing or converting to a mixed fraction</li> <li>Adds fractions with unlike denominators without reducing</li> <li>Adds fractions with unlike denominators with reducing or converting to a mixed fraction</li> <li>Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths)</li> <li>Adds whole numbers, fractions, and mixed fractions without reducing</li> <li>Adds mixed fractions where converting from improper fractions is necessary</li> <li>Subtracts fractions with like denominators with reducing</li> <li>Subtracts fractions with unlike denominators without reducing</li> <li>Subtracts fractions with unlike denominators with reducing</li> <li>Subtracts mixed fractions with unlike denominators with no regrouping</li> <li>Subtracts whole numbers, fractions, and mixed fractions</li> <li>Subtracts whole numbers, fractions, and mixed fractions with regrouping</li> <li>Uses models to multiply and divide fractions and connect the actions to algorithms</li> <li>Multiplies a fraction by a fraction without reducing to simplest form (complex problem)</li> <li>Multiplies a fraction by a fraction where reducing to simplest form is necessary</li> <li>Multiplies a fraction by a whole number</li> <li>Multiplies mixed fractions</li> <li>Divides a fraction by a fraction</li> <li>Divides a mixed fraction by a fraction</li> <li>Adds decimals to the hundredths place in horizontal format (not same number of digits)</li> <li>Adds decimals through the hundred-thousandths place</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Models algorithms using place value concepts (addition and subtraction with whole numbers)</li> <li>Models algorithms using place value concepts (multiplication and division with whole numbers)</li> <li>Divides multiple-digit numbers</li> <li>Uses appropriate algorithms to represent multiplication or division with whole numbers</li> <li>Divides numbers by powers of 10</li> <li>Adds fractions with unlike denominators with reducing or converting to a mixed fraction</li> <li>Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths)</li> <li>Adds whole numbers, fractions, and mixed fractions without reducing</li> <li>Adds mixed fractions where converting from improper fractions is necessary</li> <li>Subtracts whole numbers, fractions, and mixed fractions</li> <li>Subtracts whole numbers, fractions, and mixed fractions with regrouping</li> <li>Uses models to multiply and divide fractions and connect the actions to algorithms</li> <li>Multiplies mixed fractions</li> <li>Uses models to multiply and divide fractions and mixed fractions and connect the actions to algorithms</li> <li>Divides a fraction by a fraction</li> <li>Divides a fraction by a whole number</li> <li>Divides a whole number by a fraction</li> <li>Divides a mixed fraction by a whole number</li> <li>Divides a whole number by a mixed fraction</li> <li>Divides a mixed fraction by a fraction</li> <li>Divides a fraction by a mixed fraction</li> <li>Divides a mixed fraction by a mixed fraction</li> <li>Subtracts a decimal from a whole number, horizontally</li> <li>Multiplies a decimal by 10, 100, 1000</li> <li>Divides a whole number by a decimal</li> <li>Divides a decimal by 10, 100, 1000</li> <li>Divides a decimal by a decimal</li> </ul>

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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><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Subtracts mixed fractions with like denominators with no regrouping</li> <li>Subtracts mixed fractions with unlike denominators with no regrouping</li> <li>Uses models to multiply and divide fractions and connect the actions to algorithms</li> <li>Multiplies a fraction by a fraction where reducing to simplest form is necessary</li> <li>Multiplies a fraction by a whole number</li> <li>Adds decimals to the hundredths place in horizontal format (not same number of digits)</li> <li>Adds decimals to the thousandths place horizontally with and without regrouping</li> <li>Adds decimals through the hundred-thousandths place</li> <li>Subtracts decimals to the thousandths place, vertically, with the zero missing in the ones place</li> <li>Subtracts decimals to the thousandths place, horizontally, with and without regrouping</li> <li>Multiplies a decimal by a decimal, vertical form (factors to tenths or hundredths)</li> <li>Multiplies a decimal by a decimal (factors to hundredths)</li> <li>Divides decimal by a whole number</li> <li>Recognizes characteristics of odd and even numbers</li> <li>Determines factors of whole numbers</li> <li>Determines common multiples of whole numbers</li> <li>Identifies numbers as prime</li> <li>Identifies common factors of two or more numbers</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Subtracts decimals to the hundredths place (not same number of digits)</li> <li>Subtracts decimals to the thousandths place, horizontally, with and without regrouping</li> <li>Subtracts decimals through the hundred-thousandths place, horizontally</li> <li>Subtracts a decimal from a whole number, horizontally</li> <li>Multiplies a decimal by a decimal, vertical form (factors to tenths or hundredths)</li> <li>Multiplies a decimal by a decimal (factors to hundredths)</li> <li>Multiplies a decimal by 10, 100, 1000</li> <li>Multiplies a decimal by a decimal (factors to thousandths)</li> <li>Divides a decimal by 10, 100, 1000</li> <li>Divides a decimal by a decimal</li> <li>Recognizes characteristics of odd and even numbers</li> <li>Determines factors of whole numbers</li> <li>Uses multiple number theory concepts to solve problems (e.g., factors, digits, odd/even, divisibility)</li> <li>Determines common denominators of fractions</li> <li>Uses factor and multiple concepts to solve simple problems</li> <li>Identifies common factors of two or more numbers</li> </ul>	<p><b>Operations on Numbers</b></p>
<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>Uses rounding to estimate answers to real-world problems involving multiplication and division of numbers less than 100 (whole numbers only)</li> <li>Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with multiplication and division (whole numbers only)</li> <li>Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater using multiplication and division (whole numbers only)</li> <li>Uses rounding to estimate answers to difficult multiplication and division problems (whole numbers only)</li> <li>Uses referent numbers to estimate answers when adding and subtracting fractions and mixed numbers</li> <li>Uses strategies to determine 2 or more missing digits (addition/ subtraction only)</li> </ul>	<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>Uses rounding to estimate answers to real-world problems involving multiplication and division of numbers less than 100 (whole numbers only)</li> <li>Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with multiplication and division (whole numbers only)</li> <li>Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater using multiplication and division (whole numbers only)</li> <li>Uses rounding to estimate answers to real-world problems involving fractions and mixed numbers</li> <li>Uses estimation to solve problems involving fractions and mixed numbers</li> <li>Solves complex word problems involving whole number division with remainder (e.g., 2-step, 2-digit divisor)</li> </ul>	<p><b>Estimation and Problem Solving</b></p> <ul style="list-style-type: none"> <li>Determines the most accurate answer (fractions only)</li> <li>Predicts the relative size of the answer when dividing a smaller whole number by a larger whole number</li> <li>Rounds decimals to the nearest hundredth</li> <li>Rounds decimals to nearest ten-thousandth</li> </ul>

**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>Estimation and Problem Solving</p> <ul style="list-style-type: none"> <li>• Uses multiplication strategies to explain computation (e.g., doubles, 9-patterns, decomposing, partial products)</li> <li>• Solves whole number word problems with division over <math>10 \times 10</math></li> <li>• Solves complex word problems involving whole number division with remainder (e.g., 2-step, 2-digit divisor)</li> <li>• Solves real-world problems involving 2-step multiple operations, whole numbers only</li> <li>• Solves real-world multiple-step problems involving whole numbers</li> <li>• Predicts the relative size of the answer when adding whole numbers</li> <li>• Predicts the relative size of the answer when subtracting whole numbers</li> <li>• Predicts the relative size of the answer when computing with 10's, 100's, 1000's</li> <li>• Predicts the relative size of the answer when multiplying whole numbers</li> <li>• Rounds 4-, 5-, and 6-digit whole numbers to the nearest hundred</li> <li>• Rounds 4-, 5-, and 6-digit whole numbers to the nearest thousand</li> <li>• Rounds 4-, 5-, and 6-digit whole numbers to the nearest ten thousand</li> <li>• Rounds decimals to the nearest whole number</li> <li>• Rounds decimals to the nearest tenth</li> </ul>	<p>Estimation and Problem Solving</p> <ul style="list-style-type: none"> <li>• Solves real-world multiple-step problems involving whole numbers</li> <li>• Predicts the relative size of the answer when adding whole numbers</li> <li>• Predicts the relative size of the answer when subtracting whole numbers</li> <li>• Predicts the relative size of the answer when dividing whole numbers</li> <li>• Rounds whole numbers to the nearest million</li> <li>• Uses number sense strategies to judge the reasonableness of given answers (multiplication/division only)</li> <li>• Rounds decimals to the nearest hundredth</li> <li>• Rounds decimals to nearest thousandth</li> <li>• Rounds decimals to nearest ten-thousandth</li> </ul>	<p>Estimation and Problem Solving</p>
<p><i>New Vocabulary:</i> common factor, decimal form, lowest term, lowest terms, negative, positive, proof, reduce</p>	<p><i>New Vocabulary:</i> common denominator, expanded notation, least common denominator, lowest common denominator, range, ten million, ten thousandth</p>	<p><i>New Vocabulary:</i> equality</p>
<p><i>New Signs and Symbols:</i> ( ) parenthesis around an integer, ? a variable, - negative number, - negative sign, not equal to, % percent</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*) 221 - 230	Skills and Concepts to Develop (50% Probability*) 231 - 240	Skills and Concepts to Introduce (27% Probability*) 241 - 250
<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>• Writes equivalent forms of whole numbers using place value (numbers 100 or greater) (e.g., 253 = 2 hundreds, 5 tens, and 3 ones)</li> <li>• Writes equivalent forms of whole numbers using place value (numbers 100 or greater) (e.g., 253 = 1 hundred, 15 tens, and 3 ones)</li> <li>• Writes whole numbers in standard and exponential form</li> <li>• Identifies a fractions in lowest terms from a region or set</li> <li>• Determines simple equivalent fractions using multiples</li> <li>• Determines equivalent fractions using multiples</li> <li>• Compares fractions (e.g., comparing numerators and denominators)</li> <li>• Represents a decimal to thousandths place (e.g., three thousandths = 0.003)</li> <li>• Represents a decimal to the hundred thousandths place - (e.g., three hundred thousandths = 0.00003)</li> <li>• Compares and orders decimals to the thousandths place (same number of digits after decimal)</li> <li>• Compares and orders decimals to the hundredths place (not same number of digits after decimal)</li> <li>• Compares and orders decimals to the thousandths place (not same number of digits after decimal)</li> <li>• Compares and orders decimals past the thousandths place</li> <li>• Identifies the place value and value of each digit to the hundredths and thousandths</li> <li>• Identifies the place value and value of each digit in numbers through the ten thousandths and beyond</li> <li>• Writes a simple mixed fraction as a decimal and vice versa</li> <li>• Expresses a percent as a fraction and vice versa</li> <li>• Uses concrete and pictorial models to represent ratios</li> <li>• Writes the missing number in a proportion with numbers other than basic facts (e.g., <math>5/13 = ?/117</math>)</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>• Solves problems involving equivalent fractions (analysis)</li> <li>• Writes whole numbers in standard and exponential form</li> <li>• Compares fractions (e.g., comparing numerators and denominators)</li> <li>• Expresses a percent as a fraction and vice versa</li> <li>• Identifies the ratio from a given real-world situation</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>• Expresses the equivalent form of a fraction, decimal, and/or percent (complex fraction)</li> <li>• Identifies the ratio from a given real-world situation</li> </ul>
<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>• Models algorithms using place value concepts (addition and subtraction with whole numbers)</li> <li>• Multiplies multiple-digit numbers</li> <li>• Models algorithms using place value concepts (multiplication and division with whole numbers)</li> <li>• Divides a 4-digit number by a 2-digit number</li> <li>• Divides multiple-digit numbers</li> <li>• Uses appropriate algorithms to represent multiplication or division with whole numbers</li> <li>• Demonstrates an understanding of the commutative property of multiplication with complex problems (e.g., parenthesis, 3 factors)</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>• Models algorithms using place value concepts (addition and subtraction with whole numbers)</li> <li>• Models algorithms using place value concepts (multiplication and division with whole numbers)</li> <li>• Divides multiple-digit numbers</li> <li>• Uses appropriate algorithms to represent multiplication or division with whole numbers</li> <li>• Divides numbers by powers of 10</li> <li>• Adds fractions with unlike denominators with reducing or converting to a mixed fraction</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>• Uses factor and multiple concepts to solve difficult problems</li> </ul>

**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>Operations on Numbers</p> <ul style="list-style-type: none"> <li>• Adds fractions with like denominators with reducing or converting to a mixed fraction</li> <li>• Adds fractions with unlike denominators without reducing</li> <li>• Adds fractions with unlike denominators with reducing or converting to a mixed fraction</li> <li>• Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths)</li> <li>• Adds whole numbers, fractions, and mixed fractions without reducing</li> <li>• Adds mixed fractions where converting from improper fractions is necessary</li> <li>• Subtracts fractions with like denominators with reducing</li> <li>• Subtracts fractions with unlike denominators without reducing</li> <li>• Subtracts fractions with unlike denominators with reducing</li> <li>• Subtracts mixed fractions with unlike denominators with no regrouping</li> <li>• Subtracts whole numbers, fractions, and mixed fractions</li> <li>• Subtracts whole numbers, fractions, and mixed fractions with regrouping</li> <li>• Uses models to multiply and divide fractions and connect the actions to algorithms</li> <li>• Multiplies a fraction by a fraction without reducing to simplest form (complex problem)</li> <li>• Multiplies a fraction by a fraction where reducing to simplest form is necessary</li> <li>• Multiplies a fraction by a whole number</li> <li>• Multiplies mixed fractions</li> <li>• Divides a fraction by a fraction</li> <li>• Divides a mixed fraction by a fraction</li> <li>• Adds decimals to the hundredths place in horizontal format (not same number of digits)</li> <li>• Adds decimals through the hundred-thousandths place</li> <li>• Subtracts decimals to the hundredths place (not same number of digits)</li> <li>• Subtracts decimals to the thousandths place, horizontally, with and without regrouping</li> <li>• Subtracts decimals through the hundred-thousandths place, horizontally</li> <li>• Subtracts a decimal from a whole number, horizontally</li> <li>• Multiplies a decimal by a decimal, vertical form (factors to tenths or hundredths)</li> <li>• Multiplies a decimal by a decimal (factors to hundredths)</li> <li>• Multiplies a decimal by 10, 100, 1000</li> <li>• Multiplies a decimal by a decimal (factors to thousandths)</li> </ul>	<p>Operations on Numbers</p> <ul style="list-style-type: none"> <li>• Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths)</li> <li>• Adds whole numbers, fractions, and mixed fractions without reducing</li> <li>• Adds mixed fractions where converting from improper fractions is necessary</li> <li>• Subtracts whole numbers, fractions, and mixed fractions</li> <li>• Subtracts whole numbers, fractions, and mixed fractions with regrouping</li> <li>• Uses models to multiply and divide fractions and connect the actions to algorithms</li> <li>• Multiplies mixed fractions</li> <li>• Uses models to multiply and divide fractions and mixed fractions and connect the actions to algorithms</li> <li>• Divides a fraction by a fraction</li> <li>• Divides a fraction by a whole number</li> <li>• Divides a whole number by a fraction</li> <li>• Divides a mixed fraction by a whole number</li> <li>• Divides a whole number by a mixed fraction</li> <li>• Divides a mixed fraction by a fraction</li> <li>• Divides a fraction by a mixed fraction</li> <li>• Divides a mixed fraction by a mixed fraction</li> <li>• Subtracts a decimal from a whole number, horizontally</li> <li>• Multiplies a decimal by 10, 100, 1000</li> <li>• Divides a whole number by a decimal</li> <li>• Divides a decimal by 10, 100, 1000</li> <li>• Divides a decimal by a decimal</li> </ul>	<p>Operations on Numbers</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
<p>Operations on Numbers</p> <ul style="list-style-type: none"> <li>• Divides a decimal by 10, 100, 1000</li> <li>• Divides a decimal by a decimal</li> <li>• Recognizes characteristics of odd and even numbers</li> <li>• Determines factors of whole numbers</li> <li>• Uses multiple number theory concepts to solve problems (e.g., factors, digits, odd/even, divisibility)</li> <li>• Determines common denominators of fractions</li> <li>• Uses factor and multiple concepts to solve simple problems</li> <li>• Identifies common factors of two or more numbers</li> </ul>	<p>Operations on Numbers</p>	<p>Operations on Numbers</p>
<p>Estimation and Problem Solving</p> <ul style="list-style-type: none"> <li>• Uses rounding to estimate answers to real-world problems involving multiplication and division of numbers less than 100 (whole numbers only)</li> <li>• Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with multiplication and division (whole numbers only)</li> <li>• Uses rounding to estimate answers to real-world problems involving numbers 1000 or greater using multiplication and division (whole numbers only)</li> <li>• Uses rounding to estimate answers to real-world problems involving fractions and mixed numbers</li> <li>• Uses estimation to solve problems involving fractions and mixed numbers</li> <li>• Solves complex word problems involving whole number division with remainder (e.g., 2-step, 2-digit divisor)</li> <li>• Solves real-world multiple-step problems involving whole numbers</li> <li>• Predicts the relative size of the answer when adding whole numbers</li> <li>• Predicts the relative size of the answer when subtracting whole numbers</li> <li>• Predicts the relative size of the answer when dividing whole numbers</li> <li>• Rounds whole numbers to the nearest million</li> <li>• Uses number sense strategies to judge the reasonableness of given answers (multiplication/division only)</li> <li>• Rounds decimals to the nearest hundredth</li> <li>• Rounds decimals to nearest thousandth</li> <li>• Rounds decimals to nearest ten-thousandth</li> </ul>	<p>Estimation and Problem Solving</p> <ul style="list-style-type: none"> <li>• Determines the most accurate answer (fractions only)</li> <li>• Predicts the relative size of the answer when dividing a smaller whole number by a larger whole number</li> <li>• Rounds decimals to the nearest hundredth</li> <li>• Rounds decimals to nearest ten-thousandth</li> </ul>	<p>Estimation and Problem Solving</p>
<p><i>New Vocabulary:</i> common denominator, expanded notation, least common denominator, lowest common denominator, range, ten million, ten thousandth</p> <p><i>New Signs and Symbols:</i> None</p>	<p><i>New Vocabulary:</i> equality</p> <p><i>New Signs and Symbols:</i> None</p>	<p><i>New Vocabulary:</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
<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Solves problems involving equivalent fractions (analysis)</li> <li>Writes whole numbers in standard and exponential form</li> <li>Compares fractions (e.g., comparing numerators and denominators)</li> <li>Expresses a percent as a fraction and vice versa</li> <li>Identifies the ratio from a given real-world situation</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Expresses the equivalent form of a fraction, decimal, and/or percent (complex fraction)</li> <li>Identifies the ratio from a given real-world situation</li> </ul>	<p><b>Numbers and Number Sense</b></p> <ul style="list-style-type: none"> <li>Expresses a percent over 100 or under 1 as a fraction in lowest terms and vice versa</li> <li>Expresses the equivalent form of a fraction, decimal, and/or percent (complex fraction)</li> </ul>
<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Models algorithms using place value concepts (addition and subtraction with whole numbers)</li> <li>Models algorithms using place value concepts (multiplication and division with whole numbers)</li> <li>Divides multiple-digit numbers</li> <li>Uses appropriate algorithms to represent multiplication or division with whole numbers</li> <li>Divides numbers by powers of 10</li> <li>Adds fractions with unlike denominators with reducing or converting to a mixed fraction</li> <li>Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths)</li> <li>Adds whole numbers, fractions, and mixed fractions without reducing</li> <li>Adds mixed fractions where converting from improper fractions is necessary</li> <li>Subtracts whole numbers, fractions, and mixed fractions</li> <li>Subtracts whole numbers, fractions, and mixed fractions with regrouping</li> <li>Uses models to multiply and divide fractions and connect the actions to algorithms</li> <li>Multiplies mixed fractions</li> <li>Uses models to multiply and divide fractions and mixed fractions and connect the actions to algorithms</li> <li>Divides a fraction by a fraction</li> <li>Divides a fraction by a whole number</li> <li>Divides a whole number by a fraction</li> <li>Divides a mixed fraction by a whole number</li> <li>Divides a whole number by a mixed fraction</li> <li>Divides a mixed fraction by a fraction</li> <li>Divides a fraction by a mixed fraction</li> <li>Divides a mixed fraction by a mixed fraction</li> <li>Subtracts a decimal from a whole number, horizontally</li> <li>Multiplies a decimal by 10, 100, 1000</li> <li>Divides a whole number by a decimal</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Uses factor and multiple concepts to solve difficult problems</li> </ul>	<p><b>Operations on Numbers</b></p> <ul style="list-style-type: none"> <li>Uses factor and multiple concepts to solve difficult problems</li> </ul>

**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
<b>Operations on Numbers</b> <ul style="list-style-type: none"> <li>• Divides a decimal by 10, 100, 1000</li> <li>• Divides a decimal by a decimal</li> </ul>	<b>Operations on Numbers</b>	<b>Operations on Numbers</b>
<b>Estimation and Problem Solving</b> <ul style="list-style-type: none"> <li>• Determines the most accurate answer (fractions only)</li> <li>• Predicts the relative size of the answer when dividing a smaller whole number by a larger whole number</li> <li>• Rounds decimals to the nearest hundredth</li> <li>• Rounds decimals to nearest ten-thousandth</li> </ul>	<b>Estimation and Problem Solving</b>	<b>Estimation and Problem Solving</b>
<i>New Vocabulary:</i> equality	<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
<b>Numbers and Number Sense</b> <ul style="list-style-type: none"> <li>Expresses the equivalent form of a fraction, decimal, and/or percent (complex fraction)</li> <li>Identifies the ratio from a given real-world situation</li> </ul>	<b>Numbers and Number Sense</b> <ul style="list-style-type: none"> <li>Expresses a percent over 100 or under 1 as a fraction in lowest terms and vice versa</li> <li>Expresses the equivalent form of a fraction, decimal, and/or percent (complex fraction)</li> </ul>
<b>Operations on Numbers</b> <ul style="list-style-type: none"> <li>Uses factor and multiple concepts to solve difficult problems</li> </ul>	<b>Operations on Numbers</b> <ul style="list-style-type: none"> <li>Uses factor and multiple concepts to solve difficult problems</li> </ul>
<b>Estimation and Problem Solving</b>	<b>Estimation and Problem Solving</b>
<i>New Vocabulary: None</i>	<i>New Vocabulary: None</i>
<i>New Signs and Symbols: None</i>	<i>New Signs and Symbols: None</i>

#### Explanatory Notes

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