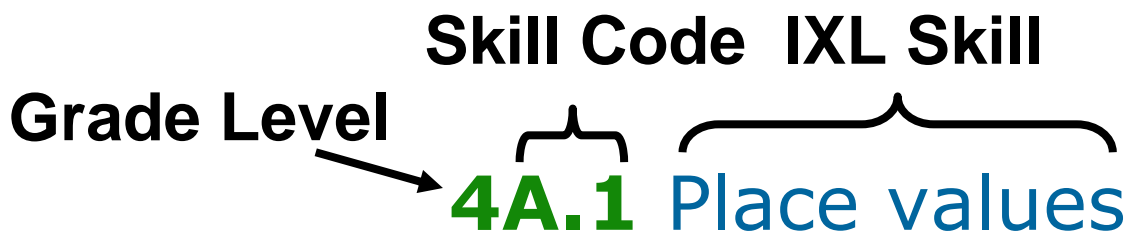


Grade 4

EnVision® Math Lessons Aligned to IXL Skills



Grade 4 EnVision® Math Lessons Aligned to IXL Skills

Topic 1: Multiplication and Division: Meanings and Facts

Topic - Lesson	IXL Skill Alignment
1-1 Meanings of Multiplication	<p>IXL Skill:</p> <p>2W.1 Multiplication sentences</p> <p>3E.1 Multiplication sentences</p> <p>3J.7 Relate addition and multiplication</p>
1-2 Patterns for Facts	<p>IXL Skill:</p> <p>3 E.7 Multiplication patterns over increasing place values</p> <p>4D.1 Multiplication facts to 12</p> <p>4D.6 Multiplication patterns over increasing place values</p>
1-3 Multiplication Properties	<p>IXL Skill:</p> <p>3J.5 Properties of multiplication</p> <p>3J.6 Solve using properties of multiplication</p> <p>4D.7 Properties of multiplication</p> <p>5F.6 Properties of multiplication</p>
1-4 3, 4, 6, 7, and 8 as Factors	<p>IXL Skill:</p> <p>4D.2 Missing factors - facts to 12</p> <p>4D.4 Identify factors</p>
1-5 Problem Solving: Look for a Pattern	<p>IXL Skill:</p> <p>3A.7 Number sequences</p> <p>4L.3 Numeric patterns: word problems</p> <p>4L.4 Patterns involving addition and multiplication</p>

	<p>4L.5 Mixed patterns review</p> <p>5T.4 Numeric patterns: word problems</p> <p>5T.3 Patterns involving addition and multiplication</p>
<p>1-6 Meanings of Division</p>	<p>IXL Skill:</p> <p>3G.1 Division facts to 5</p> <p>3G.2 Division facts to 10</p> <p>3G.3 Division word problems - facts to 10</p> <p>3G.4 Complete the division sentence - facts to 10</p> <p>3G.5 Division facts to 12</p> <p>4E.1 Division facts to 12</p> <p>4E.2 Division facts to 12: word problems</p> <p>4E.3 Properties of division</p> <p>5H.1 Division facts to 12</p> <p>5H.2 Division facts to 12: word problems</p> <p>5H.3 Divide multi-digit numbers by 1-digit numbers</p> <p>5H.4 Divide multi-digit numbers by 1-digit numbers: word problems</p>
<p>1-7 Relating Multiplication to Division</p>	<p>IXL Skill:</p> <p>3H.1 Divide by 1</p> <p>3H.2 Divide by 2</p> <p>3H.3 Divide by 3</p> <p>3H.4 Divide by 4</p> <p>3H.5 Divide by 5</p> <p>3H.6 Divide by 6</p> <p>3H.7 Divide by 7</p> <p>3H.8 Divide by 8</p> <p>3H.9 Divide by 9</p> <p>3H.10 Divide by 10</p> <p>3H.11 Divide by 11</p> <p>3H.12 Divide by 12</p> <p>3J.8 Relate multiplication and division</p> <p>4E.1 Division facts to 12</p> <p>4E.2 Division facts to 12: word problems</p>
<p>1-8 Special Quotients</p>	<p>IXL Skill:</p> <p>3H.1 Divide by 1</p>

<p>1-9 Using Multiplication Facts to Find Division Facts</p>	<p>IXL Skill:</p> <p>3H.1 Divide by 1 3H.2 Divide by 2 3H.3 Divide by 3 3H.4 Divide by 4 3H.5 Divide by 5 3H.6 Divide by 6 3H.7 Divide by 7 3H.8 Divide by 8 3H.9 Divide by 9 3H.10 Divide by 10 3H.11 Divide by 11 3H.12 Divide by 12 3J.8 Relate multiplication and division</p> <p>4E.1 Division facts to 12</p>
<p>1-10 Problem Solving: Draw a Picture and Write an Equation</p>	

<h2 style="text-align: center; background-color: #e91e63; color: white; padding: 5px;">Topic 2: Generate and Analyze Patterns</h2>	
<p style="text-align: center; background-color: #e91e63; color: white; padding: 5px;">Topic - Lesson</p>	<p style="text-align: center; background-color: #e91e63; color: white; padding: 5px;">IXL Skill Alignment</p>
<p>2-1 Repeating Patterns</p>	<p>IXL Skill:</p> <p>3A.7 Number sequences</p> <p>4L.1 Geometric growth patterns 4L.2 Increasing growth patterns 4L.3 Numeric patterns: word problems 4L.4 Patterns involving addition and multiplication 4L.5 Mixed patterns review</p> <p>5T.1 Geometric growth patterns 5T.2 Increasing growth patterns 5T.3 Patterns involving addition and multiplication 5T.4 Numeric patterns: word problems 5T.5 Mixed patterns review</p>

2-2 Number Sequences	<p>IXL Skill:</p> <p>3 A.7 Number sequences</p> <p>4L.4 Patterns involving addition and multiplication</p> <p>5T.3 Patterns involving addition and multiplication</p>
2-3 Extending Tables	<p>IXL Skill:</p> <p>4H.1 Input/output tables with addition, subtraction, multiplication, and division</p> <p>4H.2 Function tables</p>
2-4 Writing Rules for Situations	<p>IXL Skill:</p> <p>4H.1 Input/output tables with addition, subtraction, multiplication, and division</p> <p>4H.2 Function tables</p>
2-5 Geometric Patterns	
2-6 Problem-Solving: Act it Out and Use Reasoning	<p>IXL Skill:</p> <p>4 K.1 Guess two numbers based on sum and difference</p> <p>4K.2 Guess two numbers based on sum, difference, product, and quotient</p> <p>4K.3 Find the order</p>

Topic 3: Place Value

Topic - Lesson	IXL Skill Alignment
3-1 Representing Numbers	<p>IXL Skill:</p> <p>3A.1 Write numbers in words</p> <p>3B.5 Convert to/from a number</p> <p>3B.6 Convert between place values</p> <p>3B.7 Convert from expanded form</p> <p>3B.8 Convert between standard and expanded form</p> <p>4A.3 Word names for numbers</p> <p>5A.4 Word names for numbers</p>

<p>3-2 Place Value Relationships</p>	<p>IXL Skill:</p> <p>3B.1 Place value models 3B.2 Place value names 3B.3 Value of a digit 3B.4 Identify the digit with a particular place value</p> <p>4A.1 Place values 4A.2 Convert between place values</p> <p>5A.1 Place values 5A.2 Convert between place values</p>
<p>3-3 Comparing Numbers</p>	<p>IXL Skill:</p> <p>3A.10 Comparing numbers 3A.11 Comparing - with addition and subtraction 3A.12 Multi-step inequalities</p> <p>4A.9 Compare numbers up to billions</p> <p>5A.3 Compare numbers up to billions</p>
<p>3-4 Ordering Numbers</p>	<p>IXL Skill:</p> <p>3A.8 Put numbers in order 3A.9 Which number is greatest/least? 3A.10 Comparing numbers 3A.11 Comparing - with addition and subtraction 3A.12 Multi-step inequalities</p> <p>5A.10 Put integers in order</p>
<p>3-5 Rounding Whole Numbers</p>	<p>IXL Skill:</p> <p>3L.1 Rounding 3L.2 Round money amounts 3L.3 Rounding puzzles</p> <p>4A.6 Rounding 4M.2 Round money amounts</p> <p>5A.6 Rounding</p>

3-6 Problem Solving: Make and Organized List

Topic 4: Addition and Subtraction of Whole Numbers

Topic - Lesson	IXL Skill Alignment
4-1 Using Mental Math to Add and Subtract	<p>IXL Skill:</p> <ul style="list-style-type: none">4E.9 Divide numbers ending in zeroes, one-digit divisors4F.8 <u>Mentally add and subtract numbers ending in zeroes</u>
4-2 Estimating Sums and Differences of Whole Numbers	<p>IXL Skill:</p> <ul style="list-style-type: none">3L.5 <u>Estimate sums</u>4B.8 <u>Estimate sums</u>4B.9 <u>Estimate sums: word problems</u>4C.6 <u>Estimate differences</u>4C.7 <u>Estimate differences: word problems</u>4F.3 <u>Estimate sums, differences, products, and quotients: word problems</u>5D.10 <u>Estimate sums and differences of whole numbers</u>5D.11 <u>Estimate sums and differences: word problems</u>
4-3 Adding Whole Numbers	<p>IXL Skill:</p> <ul style="list-style-type: none">3C.1 <u>Add two numbers up to three digits</u>3C.3 <u>Add two numbers up to three digits - word problems</u>3C.6 <u>Add three or more numbers up to three digits each</u>3C.7 <u>Add three or more numbers up to three digits - word problems</u>3C.9 <u>Add two numbers with four or more digits</u>3C.11 <u>Add two numbers with four or more digits - word problems</u>3C.14 <u>Add three or more numbers with four or more digits</u>

	<p>3C.15 <u>Add three or more numbers with four or more digits - word problems</u></p> <p>4B.1 <u>Add numbers up to millions</u> 4B.2 <u>Add numbers up to millions: word problems</u> 4B.5 <u>Add 3 or more numbers up to millions</u></p> <p>5D.1 <u>Add and subtract whole numbers up to billions</u> 5D.2 <u>Add and subtract whole numbers: word problems</u> 5D.3 <u>Add and subtract money amounts</u> 5D.4 <u>Add and subtract money: word problems</u></p>
<p>4-4 Subtracting Whole Numbers</p>	<p>IXL Skill:</p> <p>3D.1 <u>Subtract numbers up to three digits</u> 3D.3 <u>Subtract numbers up to three digits - word problems</u> 3D.7 <u>Subtract numbers with four or more digits</u></p> <p>4C.1 <u>Subtract numbers up to millions</u> 4C.2 <u>Subtract numbers up to millions: word problems</u> 4C.3 <u>Subtraction: fill in the missing digits</u></p> <p>5D.1 <u>Add and subtract whole numbers up to billions</u> 5D.2 <u>Add and subtract whole numbers: word problems</u> 5D.3 <u>Add and subtract money amounts</u> 5D.4 <u>Add and subtract money: word problems</u></p>
<p>4-5 Subtracting Across Zeros</p>	<p>IXL Skill:</p> <p>3D.1 <u>Subtract numbers up to three digits</u> 3D.3 <u>Subtract numbers up to three digits - word problems</u> 3D.7 <u>Subtract numbers with four or more digits</u></p> <p>4C.1 <u>Subtract numbers up to millions</u> 4C.2 <u>Subtract numbers up to millions: word problems</u> 4C.3 <u>Subtraction: fill in the missing digits</u></p> <p>5D.1 <u>Add and subtract whole numbers up to billions</u> 5D.2 <u>Add and subtract whole numbers: word problems</u> 5D.3 <u>Add and subtract money amounts</u> 5D.4 <u>Add and subtract money: word problems</u></p>

4-6 Problem Solving: Draw a Picture and Write an Equation

Topic 5: Number Sense: Multiplying by 1-Digit Numbers

Topic - Lesson	IXL Skill Alignment
5-1 Arrays and Multiplying by 10 and 100	<p>IXL Skill:</p> <p>3E.8 Multiply by a multiple of ten 3E.9 Multiply numbers ending in zeroes 3F.11 Multiply by 10</p> <p>4D.17 Multiply numbers ending in zeroes 4D.18 Multiply numbers ending in zeroes: word problems</p> <p>5F.4 Multiply numbers ending in zeroes 5F.5 Multiply numbers ending in zeroes: word problems</p>
5-2 Multiply by Multiples of 10 and 100	<p>IXL Skill:</p> <p>3E.8 Multiply by a multiple of ten 3E.9 Multiply numbers ending in zeroes 3F.11 Multiply by 10</p> <p>4D.17 Multiply numbers ending in zeroes 4D.18 Multiply numbers ending in zeroes: word problems</p> <p>5F.4 Multiply numbers ending in zeroes 5F.5 Multiply numbers ending in zeroes: word problems</p>
5-3 Breaking Apart to Multiply	

<p>5-4 Using Mental Math to Multiply</p>	<p>IXL Skill:</p> <p>4D.6 Multiplication patterns over increasing place values</p> <p>5F.3 Multiplication patterns over increasing place values</p>
<p>5-5 Using Rounding to Estimate</p>	<p>IXL Skill:</p> <p>3L.6 Estimate products</p> <p>4D.8 Estimate products</p> <p>4D.9 Estimate products: word problems</p> <p>5F.8 Estimate products</p> <p>5F.9 Estimate products: word problems</p>
<p>5-6 Problem-Solving: Reasonableness</p>	<p>IXL Skill:</p> <p>4K.1 Guess two numbers based on sum and difference</p> <p>4K.2 Guess two numbers based on sum, difference, product, and quotient</p> <p>4K.3 Find the order</p>

Topic 6: Developing Fluency: Multiplying by 1-Digit Numbers

Topic - Lesson	IXL Skill Alignment
<p>6-1 Arrays and Using an Expanded Algorithm</p>	<p>IXL Skill:</p> <p>3E.10 Multiply a one-digit number by a larger number</p> <p>3E.11 Multiply a one-digit number by a larger number - word problems</p> <p>4D.5 Multiply 1-digit numbers by larger numbers</p> <p>5F.1 Multiply by 1-digit numbers</p> <p>5F.2 Multiply by 1-digit numbers: word problems</p>

<p>6-2 Connecting the Expanded and Standard Algorithms</p>	<p>IXL Skill:</p> <p>3E.10 Multiply a one-digit number by a larger number</p> <p>3E.11 Multiply a one-digit number by a larger number - word problems</p> <p>4D.5 Multiply 1-digit numbers by larger numbers</p> <p>5F.1 Multiply by 1-digit numbers</p> <p>5F.2 Multiply by 1-digit numbers: word problems</p>
<p>6-3 Multiply 2-Digit by 1-Digit Numbers</p>	<p>IXL Skill:</p> <p>3E.10 Multiply a one-digit number by a larger number</p> <p>3E.11 Multiply a one-digit number by a larger number - word problems</p> <p>4D.5 Multiply 1-digit numbers by larger numbers</p> <p>5F.1 Multiply by 1-digit numbers</p> <p>5F.2 Multiply by 1-digit numbers: word problems</p>
<p>6-4 Multiplying 3- and 4-Digit by 1-Digit Numbers</p>	<p>IXL Skill:</p> <p>3E.10 Multiply a one-digit number by a larger number</p> <p>3E.11 Multiply a one-digit number by a larger number - word problems</p> <p>4D.5 Multiply 1-digit numbers by larger numbers</p> <p>5F.1 Multiply by 1-digit numbers</p> <p>5F.2 Multiply by 1-digit numbers: word problems</p>
<p>6-5 Multiplying by 1-Digit Numbers</p>	<p>IXL Skill:</p> <p>3E.10 Multiply a one-digit number by a larger number</p> <p>3E.11 Multiply a one-digit number by a larger number - word problems</p> <p>4D.5 Multiply 1-digit numbers by larger numbers</p>

	<p>5F.1 Multiply by 1-digit numbers</p> <p>5F.2 Multiply by 1-digit numbers: word problems</p>
6-6 Problem-Solving: Missing or Extra Information	<p>IXL Skill:</p> <p>4F.5 Word problems with extra or missing information</p> <p>5J.2 Word problems with extra or missing information</p>

Topic 7: Number Sense: Multiplying by 2-Digit Numbers

Topic - Lesson	IXL Skill Alignment
7-1 Arrays and Multiplying 2-Digit Numbers by Multiples of 10	<p>IXL Skill:</p> <p>3E.8 Multiply by a multiple of ten</p> <p>3E.9 Multiply numbers ending in zeroes</p> <p>4D.17 Multiply numbers ending in zeroes</p> <p>4D.18 Multiply numbers ending in zeroes: word problems</p> <p>5F.4 Multiply numbers ending in zeroes</p> <p>5F.5 Multiply numbers ending in zeroes: word problems</p>
7-2 Using Mental Math to Multiply 2-Digit Numbers	<p>IXL Skill:</p> <p>3E.7 Multiplication patterns over increasing place values</p> <p>4D.6 Multiplication patterns over increasing place values</p> <p>5F.3 Multiplication patterns over increasing place values</p>
7-3 Using Rounding to Estimate	<p>IXL Skill:</p> <p>3L.6 Estimate products</p>

	<p>4D.8 Estimate products</p> <p>4D.9 Estimate products: word problems</p> <p>5F.8 Estimate products</p> <p>5F.9 Estimate products: word problems</p>
7-4 Using Compatible Numbers to Estimate	<p>IXL Skill:</p> <p>3L.6 Estimate products</p> <p>4D.8 Estimate products</p> <p>4D.9 Estimate products: word problems</p> <p>5F.8 Estimate products</p> <p>5F.9 Estimate products: word problems</p>
7-5 Problem-Solving: Multiple-Step Problems	<p>IXL Skill:</p> <p>3I.6 Multi-step word problems</p> <p>4F.4 Multi-step word problems</p> <p>5J.1 Multi-step word problems</p>

Topic 8: Developing Fluency: Multiplying by 2-Digit Numbers

Topic - Lesson	IXL Skill Alignment
8-1 Arrays and Multiplying 2-Digit Numbers	<p>IXL Skill:</p> <p>4D.10 Multiply a 2-digit number by a 2-digit number: complete the missing steps</p> <p>4D.11 Multiply a 2-digit number by a 2-digit number</p> <p>4D.12 Multiply a 2-digit number by a 2-digit number: word problems</p> <p>4D.13 Choose numbers with a particular product</p> <p>4D.14 Multiply a 2-digit number by a larger number: complete the missing steps</p> <p>4D.15 Multiply a 2-digit number by a larger number</p> <p>4D.16 Multiply a 2-digit number by a larger number: word problems</p>

	<p>5F.10 Multiply by 2-digit numbers: complete the missing steps</p> <p>5F.11 Multiply a 2-digit number by a 2-digit number</p> <p>5F.12 Multiply a 2-digit number by a larger number</p> <p>5F.13 Multiply by 2-digit numbers: word problems</p>
<p>8-2 Arrays and Expanded Algorithm</p>	<p>IXL Skill:</p> <p>4D.10 Multiply a 2-digit number by a 2-digit number: complete the missing steps</p> <p>4D.11 Multiply a 2-digit number by a 2-digit number</p> <p>4D.12 Multiply a 2-digit number by a 2-digit number: word problems</p> <p>4D.13 Choose numbers with a particular product</p> <p>4D.14 Multiply a 2-digit number by a larger number: complete the missing steps</p> <p>4D.15 Multiply a 2-digit number by a larger number</p> <p>4D.16 Multiply a 2-digit number by a larger number: word problems</p> <p>5F.10 Multiply by 2-digit numbers: complete the missing steps</p> <p>5F.11 Multiply a 2-digit number by a 2-digit number</p> <p>5F.12 Multiply a 2-digit number by a larger number</p> <p>5F.13 Multiply by 2-digit numbers: word problems</p>
<p>8-3 Multiplying 2-Digit Numbers by Multiples of 10</p>	<p>IXL Skill:</p> <p>4D.10 Multiply a 2-digit number by a 2-digit number: complete the missing steps</p> <p>4D.11 Multiply a 2-digit number by a 2-digit number</p> <p>4D.12 Multiply a 2-digit number by a 2-digit number: word problems</p> <p>4D.13 Choose numbers with a particular product</p> <p>4D.14 Multiply a 2-digit number by a larger number: complete the missing steps</p> <p>4D.15 Multiply a 2-digit number by a larger number</p> <p>4D.16 Multiply a 2-digit number by a larger number: word problems</p> <p>5F.10 Multiply by 2-digit numbers: complete the missing steps</p> <p>5F.11 Multiply a 2-digit number by a 2-digit number</p> <p>5F.12 Multiply a 2-digit number by a larger number</p> <p>5F.13 Multiply by 2-digit numbers: word problems</p>

<p>8-4 Multiply 2-Digit by 2-Digit Numbers</p>	<p>IXL Skill:</p> <p>4D.10 Multiply a 2-digit number by a 2-digit number: complete the missing steps 4D.11 Multiply a 2-digit number by a 2-digit number 4D.12 Multiply a 2-digit number by a 2-digit number: word problems 4D.13 Choose numbers with a particular product 4D.14 Multiply a 2-digit number by a larger number: complete the missing steps 4D.15 Multiply a 2-digit number by a larger number 4D.16 Multiply a 2-digit number by a larger number: word problems</p> <p>5F.10 Multiply by 2-digit numbers: complete the missing steps 5F.11 Multiply a 2-digit number by a 2-digit number 5F.12 Multiply a 2-digit number by a larger number 5F.13 Multiply by 2-digit numbers: word problems</p>
<p>8-5 Problem-Solving: Two-Question Problems</p>	<p>IXL Skill:</p> <p>3I.6 Multi-step word problems</p> <p>4F.4 Multi-step word problems</p> <p>5J.1 Multi-step word problems</p>

Topic 9: Number Sense: Dividing by 1-Digit Divisors

Topic - Lesson	IXL Skill Alignment
<p>9-1 Using Mental Math to Divide</p>	<p>IXL Skill:</p> <p>3G.5 Division facts to 12 3G.6 Division patterns over increasing place values 3G.7 Divide numbers ending in zeroes</p> <p>4E.9 Divide numbers ending in zeroes, one-digit divisors 4E.12 Division patterns over increasing place values 4E.13 Divide numbers ending in zeroes, multi-digit divisors</p>

	<p>5H.7 <u>Division patterns over increasing place values</u></p> <p>5H.8 <u>Divide numbers ending in zeroes</u></p> <p>5H.9 <u>Divide numbers ending in zeroes: word problems</u></p>
9-2 Estimating Quotients	<p>IXL Skill:</p> <p>3L.7 <u>Estimate quotients</u></p> <p>4E.10 <u>Estimate quotients, one-digit divisors</u></p> <p>4E.21 <u>Estimate quotients</u></p> <p>5H.6 <u>Estimate quotients: word problems</u></p> <p>5H.13 <u>Estimate quotients</u></p>
9-3 Estimating Quotients for Greater Dividends	<p>IXL Skill:</p> <p>3L.7 <u>Estimate quotients</u></p> <p>4E.10 <u>Estimate quotients, one-digit divisors</u></p> <p>4E.21 <u>Estimate quotients</u></p> <p>5H.6 <u>Estimate quotients: word problems</u></p> <p>5H.13 <u>Estimate quotients</u></p>
9-4 Dividing with Remainders	<p>IXL Skill:</p> <p>3G.8 <u>Divide three-digit numbers</u></p> <p>4E.7 <u>Divide by 1-digit numbers: interpret remainders</u></p> <p>4E.4 <u>Divide larger numbers, one-digit divisors</u></p> <p>5H.5 <u>Divide by 1-digit numbers: interpret remainders</u></p> <p>5H.3 <u>Divide multi-digit numbers by 1-digit numbers</u></p>
9-5 Multiplication and Division Stories	<p>IXL Skill:</p> <p>3E.3 <u>Multiplication word problems - facts to 12</u></p> <p>3E.5 <u>Missing factors - facts to 12 - word problems</u></p> <p>3E.11 <u>Multiply a one-digit number by a larger number - word problems</u></p> <p>3E.13 <u>Multiply three or more numbers - word problems</u></p> <p>3G.9 <u>Divide three-digit numbers - word problems</u></p> <p>3G.11 <u>Divide larger numbers - word problems</u></p> <p>3I.4 <u>Addition, subtraction, multiplication, and division word problems</u></p>

4D.12 [Multiply a 2-digit number by a 2-digit number: word problems](#)
4D.16 [Multiply a 2-digit number by a larger number: word problems](#)
4D.18 [Multiply numbers ending in zeroes: word problems](#)
4E.14 [Divide numbers ending in zeroes, multi-digit divisors: word problems](#)
4E.17 [Divide by 2-digit numbers: word problems](#)
4E.19 [Divide larger numbers by 2-digit numbers: word problems](#)
4F.2 [Addition, subtraction, multiplication, and division word problems](#)

5F.2 [Multiply by 1-digit numbers: word problems](#)
5F.5 [Multiply numbers ending in zeroes: word problems](#)
5F.13 [Multiply by 2-digit numbers: word problems](#)
5F.17 [Multiply three or more numbers: word problems](#)
5H.2 [Division facts to 12: word problems](#)
5H.4 [Divide multi-digit numbers by 1-digit numbers: word problems](#)
5H.9 [Divide numbers ending in zeroes: word problems](#)
5H.11 [Divide by 2-digit numbers: word problems](#)
5H.12 [Divide money amounts: word problems](#)
5P.2 [Add, subtract, multiply, and divide whole numbers: word problems](#)

9-6 Problem-Solving: Draw a Picture and Write an Equation

Topic 10: Developing Fluency: Dividing by 1-Digit Divisors

Topic - Lesson	IXL Skill Alignment
10-1 Using Objects to Divide: Division as Repeated Subtraction	IXL Skill: 4E.4 Divide larger numbers, one-digit divisors 4E.5 Divide larger numbers, one-digit divisors: word problems 4E.6 Divide by 1-digit numbers: complete the table 5H.3 Divide multi-digit numbers by 1-digit numbers 5H.4 Divide multi-digit numbers by 1-digit numbers: word problems
10-2 Division as Repeated Subtraction	IXL Skill: 4E.4 Divide larger numbers, one-digit divisors 4E.5 Divide larger numbers, one-digit divisors: word problems 4E.6 Divide by 1-digit numbers: complete the table 5H.3 Divide multi-digit numbers by 1-digit numbers 5H.4 Divide multi-digit numbers by 1-digit numbers: word problems
10-3 Using Objects to Divide: Division as Sharing	IXL Skill: 4E.4 Divide larger numbers, one-digit divisors 4E.5 Divide larger numbers, one-digit divisors: word problems 4E.6 Divide by 1-digit numbers: complete the table 5H.3 Divide multi-digit numbers by 1-digit numbers 5H.4 Divide multi-digit numbers by 1-digit numbers: word problems
10-4 Dividing 2-Digit by 1- Digit Numbers	IXL Skill: 4E.4 Divide larger numbers, one-digit divisors 4E.5 Divide larger numbers, one-digit divisors: word problems 4E.6 Divide by 1-digit numbers: complete the table 5H.3 Divide multi-digit numbers by 1-digit numbers 5H.4 Divide multi-digit numbers by 1-digit numbers: word problems

<p>10-5 Dividing 3-Digit by 1-Digit Numbers</p>	<p>IXL Skill:</p> <p>3G.8 Divide three-digit numbers 3G.9 Divide three-digit numbers - word problems 3G.10 Divide larger numbers 3G.11 Divide larger numbers - word problems</p> <p>4E.4 Divide larger numbers, one-digit divisors 4E.5 Divide larger numbers, one-digit divisors: word problems</p>
<p>10-6 Deciding Where to Start Dividing</p>	<p>IXL Skill:</p> <p>3G.8 Divide three-digit numbers 3G.9 Divide three-digit numbers - word problems 3G.10 Divide larger numbers 3G.11 Divide larger numbers - word problems</p> <p>4E.4 Divide larger numbers, one-digit divisors 4E.5 Divide larger numbers, one-digit divisors: word problems</p>
<p>10-7 Dividing 4-Digit by 1-Digit Numbers</p>	<p>IXL Skill:</p> <p>3G.8 Divide three-digit numbers 3G.9 Divide three-digit numbers - word problems 3G.10 Divide larger numbers 3G.11 Divide larger numbers - word problems</p> <p>4E.4 Divide larger numbers, one-digit divisors 4E.5 Divide larger numbers, one-digit divisors: word problems</p>
<p>10-8 Problem-Solving: Multiple-Step Problems</p>	<p>IXL Skill:</p> <p>3I.6 Multi-step word problems</p> <p>4F.4 Multi-step word problems</p> <p>5J.1 Multi-step word problems</p>

Topic 11: Fraction Equivalence and Ordering

Topic - Lesson	IXL Skill Alignment
11-1 Factors	IXL Skill: 4D.4 Identify factors
11-2 Prime and Composite Numbers	IXL Skill: 4A.5 Prime and composite numbers
11-3 Multiples	IXL Skill: 4D.3 Choose the multiples of a given number up to 12
11-4 Equivalent Fractions	IXL Skill: 3S.6 Equivalent fractions: type the missing numerator or denominator 3S.7 Equivalent fractions: choose the equivalent fraction 4Q.1 Equivalent fractions 4Q.2 Patterns of equivalent fractions 5L.2 Equivalent fractions
11-5 Number Lines and Equivalent Fractions	IXL Skill: 3S.6 Equivalent fractions: type the missing numerator or denominator 3S.7 Equivalent fractions: choose the equivalent fraction 4Q.1 Equivalent fractions 4Q.2 Patterns of equivalent fractions 5L.2 Equivalent fractions

11-6 Comparing Fractions	IXL Skill: 3S.5 Compare fractions 4Q.5 Compare fractions 5L.6 Compare fractions and mixed numbers
11-7 Ordering Fractions	IXL Skill: 3S.9 Put fractions in order 4Q.6 Put fractions in order 5L.7 Put fractions in order
11-8 Problem-Solving: Writing to Explain	

Topic 12: Adding and Subtracting Fractions and Mixed Numbers with Like Denominators

Topic - Lesson	IXL Skill Alignment
12-1 Modeling Addition of Fractions	IXL Skill: 3S.14 Add and subtract fractions with like denominators 4R.1 Add and subtract fractions with like denominators 4R.2 Add and subtract fractions with like denominators: word problems 4R.3 Add 3 or more fractions with like denominators 5M.1 Add and subtract fractions with like denominators 5M.2 Add and subtract fractions with like denominators: word problems 5M.3 Add and subtract mixed numbers with like denominators

<p>12-2 Adding Fractions with Like Denominators</p>	<p>IXL Skill:</p> <p>3S.14 Add and subtract fractions with like denominators</p> <p>4R.1 Add and subtract fractions with like denominators</p> <p>4R.2 Add and subtract fractions with like denominators: word problems</p> <p>4R.3 Add 3 or more fractions with like denominators</p> <p>5M.1 Add and subtract fractions with like denominators</p> <p>5M.2 Add and subtract fractions with like denominators: word problems</p> <p>5M.3 Add and subtract mixed numbers with like denominators</p>
<p>12-3 Modeling Subtractions of Fractions</p>	<p>IXL Skill:</p> <p>3S.14 Add and subtract fractions with like denominators</p> <p>4R.1 Add and subtract fractions with like denominators</p> <p>4R.2 Add and subtract fractions with like denominators: word problems</p> <p>4R.3 Add 3 or more fractions with like denominators</p> <p>5M.1 Add and subtract fractions with like denominators</p> <p>5M.2 Add and subtract fractions with like denominators: word problems</p> <p>5M.3 Add and subtract mixed numbers with like denominators</p>
<p>12-4 Subtracting Fractions with Like Denominators</p>	<p>IXL Skill:</p> <p>3S.14 Add and subtract fractions with like denominators</p> <p>4R.1 Add and subtract fractions with like denominators</p> <p>4R.2 Add and subtract fractions with like</p>

	<p>denominators: word problems</p> <p>4R.3 Add 3 or more fractions with like denominators</p> <p>5M.1 Add and subtract fractions with like denominators</p> <p>5M.2 Add and subtract fractions with like denominators: word problems</p> <p>5M.3 Add and subtract mixed numbers with like denominators</p>
<p>12-5 Adding and Subtracting on a Number Line</p>	<p>IXL Skill:</p> <p>3S.14 Add and subtract fractions with like denominators</p> <p>4R.1 Add and subtract fractions with like denominators</p> <p>4R.2 Add and subtract fractions with like denominators: word problems</p> <p>4R.3 Add 3 or more fractions with like denominators</p> <p>5M.1 Add and subtract fractions with like denominators</p> <p>5M.2 Add and subtract fractions with like denominators: word problems</p> <p>5M.3 Add and subtract mixed numbers with like denominators</p>
<p>12-6 Improper Fractions and Mixed Numbers</p>	<p>IXL Skill:</p> <p>3S.12 Mixed numbers: what mixed number is shown?</p> <p>3S.13 Mixed numbers: write the mixed number in words</p> <p>4Q.9 Mixed number review</p> <p>4Q.10 Convert between improper fractions and mixed</p>

	<p>numbers</p> <p>5L.4 Convert between improper fractions and mixed numbers</p>
<p>12-7 Modeling Addition and Subtraction of Mixed Numbers</p>	<p>IXL Skill:</p> <p>4R.10 Add and subtract mixed numbers with like denominators</p> <p>4R.11 Add and subtract mixed numbers with unlike denominators</p> <p>4R.12 Add and subtract mixed numbers with like and unlike denominators: word problems</p> <p>5M.3 Add and subtract mixed numbers with like denominators</p> <p>5M.14 Add and subtract mixed numbers: word problems</p>
<p>12-8 Adding Mixed Numbers</p>	<p>IXL Skill:</p> <p>4R.10 Add and subtract mixed numbers with like denominators</p> <p>4R.11 Add and subtract mixed numbers with unlike denominators</p> <p>4R.12 Add and subtract mixed numbers with like and unlike denominators: word problems</p> <p>5M.3 Add and subtract mixed numbers with like denominators</p> <p>5M.14 Add and subtract mixed numbers: word problems</p>
<p>12-9 Subtracting Mixed Numbers</p>	<p>IXL Skill:</p> <p>4R.10 Add and subtract mixed numbers with like denominators</p> <p>4R.11 Add and subtract mixed numbers with unlike denominators</p> <p>4R.12 Add and subtract mixed numbers with like and unlike denominators: word problems</p> <p>5M.3 Add and subtract mixed numbers with like denominators</p> <p>5M.14 Add and subtract mixed numbers: word problems</p>

12-10 Decomposing and Composing Fractions	<p>IXL Skill:</p> <p>4R.3 Add 3 or more fractions with like denominators</p> <p>5M.7 Add 3 or more fractions with unlike denominators</p> <p>5M.8 Add 3 or more fractions: word problems</p>
12-11 Problem-Solving: Draw a Picture and Write an Equation	

Topic 13: Extending Fraction Concepts	
Topic - Lesson	IXL Skill Alignment
13-1 Fractions as Multiples of Unit Fractions: Using Models	<p>IXL Skill:</p> <p>4S.1 Multiply fractions by whole numbers I</p> <p>4S.2 Multiply fractions by whole numbers II</p> <p>5N.1 Multiply fractions by whole numbers I</p> <p>5N.2 Multiply fractions by whole numbers II</p>
13-2 Multiplying a Fraction by a Whole Number: Using Models	<p>IXL Skill:</p> <p>4S.1 Multiply fractions by whole numbers I</p> <p>4S.2 Multiply fractions by whole numbers II</p> <p>5N.1 Multiply fractions by whole numbers I</p> <p>5N.2 Multiply fractions by whole numbers II</p>
13-3 Multiplying a Fraction by a Whole Number: Using Symbols	<p>IXL Skill:</p> <p>4S.1 Multiply fractions by whole numbers I</p> <p>4S.2 Multiply fractions by whole numbers II</p> <p>5N.1 Multiply fractions by whole numbers I</p> <p>5N.2 Multiply fractions by whole numbers II</p>

<p>13-4 Fractions and Decimals</p>	<p>IXL Skill:</p> <p>3T.1 What decimal number is illustrated? 3T.2 Convert between decimals and fractions</p> <p>4T.1 What decimal number is illustrated? 4T.6 Convert fractions and mixed numbers to decimals 4T.7 Convert decimals to fractions and mixed numbers 4T.8 Compare decimals and fractions</p> <p>5C.1 What decimal number is illustrated? 5C.9 Convert fractions to decimals 5C.10 Convert decimals to fractions 5C.11 Compare decimals and fractions</p>
<p>13-5 Fractions and Decimals on the Number Line</p>	<p>IXL Skill:</p> <p>3S.4 Fractions on number lines</p> <p>4T.5 Decimal number lines</p> <p>5C.6 Decimal number lines</p>
<p>13-6 Equivalent Fractions and Decimals</p>	<p>IXL Skill:</p> <p>3T.1 What decimal number is illustrated? 3T.2 Convert between decimals and fractions</p> <p>4T.1 What decimal number is illustrated? 4T.6 Convert fractions and mixed numbers to decimals 4T.7 Convert decimals to fractions and mixed numbers 4T.8 Compare decimals and fractions</p> <p>5C.1 What decimal number is illustrated? 5C.9 Convert fractions to decimals 5C.10 Convert decimals to fractions 5C.11 Compare decimals and fractions</p>
<p>13-7 Decimal Place Value</p>	<p>IXL Skill:</p> <p>4T.3 Place values in decimal numbers</p> <p>5C.3 Place values in decimal numbers</p>

13-8 Comparing and Ordering Decimals	<p>IXL Skill:</p> <p>3T.5 Inequalities with decimals 3T.6 Put decimal numbers in order</p> <p>4T.10 Compare decimal numbers 4T.11 Put decimal numbers in order</p> <p>5C.7 Compare decimal numbers 5C.8 Put decimal numbers in order</p>
13-9 Using Money to Understand Decimals	
13-10 Problem-Solving: Draw a Picture	

Topic 14: Measurement Units and Conversions

Topic - Lesson	IXL Skill Alignment
14-1 Using Customary Units of Length	<p>IXL Skill:</p> <p>3Q.3 Which customary unit is appropriate? 3Q.4 Compare and convert customary units of length</p> <p>5W.1 Choose the appropriate customary unit of measure</p>
14-2 Customary Units of Capacity	<p>IXL Skill:</p> <p>3Q.3 Which customary unit is appropriate? 3Q.6 Compare and convert customary units of volume</p> <p>4N.1 Compare and convert customary units</p> <p>5W.1 Choose the appropriate customary unit of measure</p>
14-3 Units of Weight	<p>IXL Skill:</p> <p>3Q.3 Which customary unit is appropriate? 3Q.5 Compare and convert customary units of weight</p> <p>4N.1 Compare and convert customary units</p>

	<p>5W.1 Choose the appropriate customary unit of measure</p>
14-4 Changing Customary Units	<p>IXL Skill:</p> <p>3Q.4 Compare and convert customary units of length 3Q.5 Compare and convert customary units of weight 3Q.6 Compare and convert customary units of volume 3Q.7 Conversion tables - customary units 3Q.8 Compare customary units by multiplying</p> <p>4N.1 Compare and convert customary units 4N.4 Convert mixed customary units</p> <p>5W.3 Compare and convert customary units 5W.5 Compare customary units by multiplying 5W.6 Convert customary units involving fractions 5W.7 Convert mixed customary units</p>
14-5 Problem-Solving: Writing to Explain	
14-6 Using Metric Units of Length	<p>IXL Skill:</p> <p>3Q.9 Which metric unit is appropriate? 3Q.10 Compare and convert metric units of length</p> <p>4N.2 Compare and convert metric units</p> <p>5W.2 Choose the appropriate metric unit of measure 5W.4 Compare and convert metric units</p>
14-7 Metric Units of Capacity	<p>IXL Skill:</p> <p>3Q.9 Which metric unit is appropriate? 3Q.12 Compare and convert metric units of volume</p> <p>4N.2 Compare and convert metric units</p> <p>5W.2 Choose the appropriate metric unit of measure 5W.4 Compare and convert metric units</p>

<p>14-8 Units of Mass</p>	<p>IXL Skill:</p> <p>3Q.9 Which metric unit is appropriate? 3Q.11 Compare and convert metric units of weight</p> <p>4N.2 Compare and convert metric units</p> <p>5W.2 Choose the appropriate metric unit of measure 5W.4 Compare and convert metric units</p>
<p>14-9 Changing Metric Units</p>	<p>IXL Skill:</p> <p>3Q.10 Compare and convert metric units of length 3Q.11 Compare and convert metric units of weight 3Q.12 Compare and convert metric units of volume 3Q.13 Conversion tables - metric units</p> <p>4N.2 Compare and convert metric units</p> <p>5W.4 Compare and convert metric units</p>
<p>14-10 Units of Time</p>	<p>IXL Skill:</p> <p>30.5 Relate time units 30.7 Convert between hours and fractions of hours</p> <p>40.1 Convert time units 40.2 Add and subtract mixed time units 40.3 Fractions of time units</p> <p>5X.1 Convert time units 5X.2 Add and subtract mixed time units</p>
<p>14-11 Problem-Solving: Work Backward</p>	

Topic 15: Solving Measurement Problems

Topic - Lesson	IXL Skill Alignment
15-1 Solving Perimeter and Area Problems	<p>IXL Skill:</p> <p>3R.7 Perimeter 3R.8 Perimeter: find the missing side length 3R.9 Area of figures made of unit squares 3R.10 Area of rectangles 3R.11 Area of squares and rectangles: word problems 3R.13 Compare area and perimeter of two figures 3R.14 Use area and perimeter to determine cost 3R.15 Relationship between area and perimeter</p> <p>4P.17 Perimeter 4P.18 Area of squares and rectangles 4P.20 Compare area and perimeter of two figures 4P.21 Relationship between area and perimeter</p> <p>5B.15 Perimeter 5B.16 Area of squares and rectangles 5B.21 Area and perimeter: word problems</p>
15-2 Solving Measurement Problems	<p>IXL Skill:</p> <p>4R.14 Recipes</p>
15-3 Solving Problems Involving Money	<p>IXL Skill:</p> <p>3N.3 Purchases - do you have enough money - up to \$10 3N.8 Add money amounts - word problems 3N.9 Price lists</p> <p>4M.5 Making change 4M.6 Price lists with addition and subtraction 4M.7 Price lists with multiplication 4M.8 Unit prices</p>
15-4 Solving Problems Involving Line Plots	<p>IXL Skill:</p> <p>3P.6 Interpret line plots 3P.7 Create line plots</p>

	<p>4J.6 Interpret line plots</p> <p>4J.7 Create line plots</p> <p>5S.10 Interpret line plots</p> <p>5S.11 Create line plots</p>
15-5 Problem-Solving: Solve a Simpler Problem and Make a Table	

Topic 16: Lines, Angles, and Shapes

Topic - Lesson	IXL Skill Alignment
16-1 Points, Lines, and Planes	<p>IXL Skill:</p> <p>4P.26 Lines, line segments, and rays</p> <p>4P.27 Parallel, perpendicular, intersecting</p> <p>5B.29 Lines, line segments, and rays</p> <p>5B.30 Parallel, perpendicular, intersecting</p>
16-2 Line Segments, Rays, and Angles	<p>IXL Skill:</p> <p>3R.17 Angles: greater than, less than, or equal to a right angle</p> <p>3R.18 Lines, line segments, and rays</p> <p>4P.11 Acute, right, obtuse, and straight angles</p> <p>4P.26 Lines, line segments, and rays</p> <p>5B.12 Types of angles</p> <p>5B.29 Lines, line segments, and rays</p>
16-3 Understanding Angles and Unit Angles	<p>IXL Skill:</p> <p>4P.14 Estimate angle measurements</p>

<p>16-4 Measuring with Unit Angles</p>	<p>IXL Skill:</p> <p>4P.13 Measure angles with a protractor</p> <p>5B.13 Measure angles with a protractor</p>
<p>16-5 Measuring Angles</p>	<p>IXL Skill:</p> <p>4P.13 Measure angles with a protractor</p> <p>5B.13 Measure angles with a protractor</p>
<p>16-6 Adding and Subtracting Angle Measures</p>	
<p>16-7 Polygons</p>	<p>IXL Skill:</p> <p>3R.1 Identify planar and solid shapes</p> <p>3R.2 Which 2-dimensional shape is being described?</p> <p>3R.3 Count and compare sides, edges, faces, and vertices</p> <p>4P.4 Which 2-dimensional shape is being described?</p> <p>4P.7 Number of sides in polygons</p> <p>4P.8 Count and compare sides, edges, faces, and vertices</p> <p>5B.5 Number of sides in polygons</p> <p>5B.6 Which figure is being described?</p> <p>5B.9 Count and compare sides, edges, faces, and vertices</p>
<p>16-8 Triangles</p>	<p>IXL Skill:</p> <p>3R.20 Triangles: equilateral, isosceles, and scalene</p> <p>3R.21 Triangles: acute, right, and obtuse</p> <p>4P.2 Types of triangles</p> <p>5B.2 Types of triangles</p>

16-9 Quadrilaterals	<p>IXL Skill:</p> <p>3R.22 Classify quadrilaterals 4P.6 Classify quadrilaterals 5B.7 Classify quadrilaterals</p>
16-10 Line Symmetry	<p>IXL Skill:</p> <p>3R.4 Symmetry 4P.25 Lines of symmetry 5B.27 Lines of symmetry</p>
16-11 Problem-Solving: Make and Test Generalizations	