Scope and Sequence: Grade Level Map

4: Fractional Units

Module 1 Place Value Concepts for Addition and Subtraction	Module 2 Place Value Concepts for Multiplication and Division	Module 3 Multiplication and Division of Multi-Digit Numbers	Module 4 Foundations for Fraction Operations	Module 5 Angle Measurements and Plane Figures	Module 6 Place Value Concepts for Decimal Fractions
Topic A: Multiplication as Multiplicative Comparison **Lesson 1:** Interpret multiplication as multiplicative comparison. NY-4.OA.1, NY-4.OA.2, MP7, 4.Mod1.AD1, 4.Mod1.AD2, 4.Mod1.AD3, 4.Mod1.AD13 **Lesson 2:** Solve multiplicative comparison problems with unknowns in various positions. NY-4.OA.1, NY-4.OA.2, MP7, 4.Mod1.AD1, 4.Mod1.AD2, 4.Mod1.AD3 **Lesson 3:** Describe relationships between measurements by using multiplicative comparison. NY-4.OA.1, NY-4.OA.2, MP2, 4.Mod1.AD1, 4.Mod1.AD2, 4.Mod1.AD3, 4.Mod1.AD13 **Lesson 4:** Represent the composition of larger units of money by using multiplicative comparison. NY-4.OA.1, NY-4.OA.2, MP7, 4.Mod1.AD1, 4.Mod1.AD2, 4.Mod1.AD3	**Topic A: Compose and Decompose Units of Ten** **Lesson 1:** Multiply multiples of 10 by one-digit numbers by using the associative property of multiplication. NY-4.NBT.5, MP7, 4.Mod2.AD6 **Lesson 2:** Divide two- and three-digit multiples of 10 by one-digit numbers. NY-4.NBT.6, MP2, 4.Mod2.AD7 **Lesson 3:** Investigate and use a formula for the area of a rectangle. NY-4.MD.3, MP1, 4.Mod2.AD11 **Topic B: Multiplication of Tens and Ones by One-digit Numbers** **Lesson 4:** Multiply by using familiar strategies. NY-4.NBT.5, MP5, 4.Mod2.AD6 **Lesson 5:** Multiply by using place value strategies and the distributive property. NY-4.NBT.5, MP7, 4.Mod2.AD6	**Topic A: Multiplication and Division of Multiples of Tens, Hundreds, and Thousands** **Lesson 1:** Divide multiples of 100 and 1000. NY-4.NBT.6, MP8, 4.Mod3.AD3 **Lesson 2:** Multiply by multiples of 100 and 1000. NY-4.NBT.5, MP7, 4.Mod3.AD2 **Lesson 3:** Multiply a two-digit multiple of 10 by a two-digit multiple of 10. NY-4.NBT.5, MP3, 4.Mod3.AD2 **Topic B: Division of Thousands, Hundreds, Tens, and Ones** **Lesson 4:** Apply place value strategies to divide hundreds, tens, and ones. NY-4.NBT.6, MP1, 4.Mod3.AD3 **Lesson 5:** Apply place value strategies to divide thousands, hundreds, tens, and ones. NY-4.NBT.6, MP5, 4.Mod3.AD3	**Topic A: Fraction Decomposition and Equivalence** **Lesson 1:** Decompose whole numbers into a sum of unit fractions. NY-4.NF.3a, NY-4.NF.3b, MP7, 4.Mod4.AD4 **Lesson 2:** Decompose fractions into a sum of unit fractions. NY-4.NF.3a, NY-4.NF.3b, MP2, 4.Mod4.AD4 **Lesson 3:** Decompose fractions into a sum of fractions. NY-4.NF.3a, NY-4.NF.3b, MP6, 4.Mod4.AD4 **Lesson 4:** Represent fractions by using various fraction models. NY-4.NF.3a, NY-4.NF.3b, MP4, 4.Mod4.AD4 **Lesson 5:** Rename fractions greater than 1 as mixed numbers. NY-4.NF.3a, NY-4.NF.3b, MP7, 4.Mod4.AD4 **Lesson 6:** Rename mixed numbers as fractions greater than 1. NY-4.NF.3a, NY-4.NF.3b, MP5, 4.Mod4.AD4	**Topic A: Lines and Angles** **Lesson 1:** Identify and draw points, lines, line segments, rays, and angles. NY-4.G.1, MP6, 4.Mod5.AD9, 4.Mod5.AD10 **Lesson 2:** Identify right, acute, obtuse, and straight angles. NY-4.G.1, MP7, 4.Mod5.AD9, 4.Mod5.AD10 **Lesson 3:** Draw right, acute, obtuse, and straight angles. NY-4.G.1, MP6, 4.Mod5.AD9, 4.Mod5.AD10 **Lesson 4:** Identify, define, and draw perpendicular lines. NY-4.G.1, MP6, 4.Mod5.AD9, 4.Mod5.AD10 **Lesson 5:** Identify, define, and draw parallel lines. NY-4.G.1, MP6, 4.Mod5.AD9, 4.Mod5.AD10 **Lesson 6:** Relate geometric figures to a real-world context. NY-4.G.1, MP2, 4.Mod5.AD9, 4.Mod5.AD10	**Topic A: Exploration of Tenths** **Lesson 1:** Organize, count, and represent a collection of money. NY-4.NF.6, MP5, 4.Mod6.AD10 **Lesson 2:** Decompose 1 one and express tenths in fraction form and decimal form. NY-4.NF.6, MP8, 4.Mod6.AD10 **Lesson 3:** Represent tenths as a place value unit. NY-4.NF.6, MP7, 4.Mod6.AD10 **Lesson 4:** Write mixed numbers in decimal form with tenths. NY-4.NF.6, MP6, 4.Mod6.AD10 **Topic B: Tenths and Hundredths** **Lesson 5:** Decompose 1 one and express hundredths in fraction form and decimal form. NY-4.NF.5, NY-4.NF.6, MP2, 4.Mod6.AD8, 4.Mod6.AD10

Module 1	Module 2	Module 3	Module 4	Module 5	Module 6

Module 1

Topic B: Place Value and Comparison within 1,000,000

Lesson 5: Organize, count, and represent a collection of objects.
NY-4.NBT.2a, MP5, 4.Mod1.AD7

Lesson 6: Demonstrate that a digit represents 10 times the value of what it represents in the place to its right.
NY-4.OA.1, NY-4.NBT.1, MP8, 4.Mod1.AD1, 4.Mod1.AD2, 4.Mod1.AD6

Lesson 7: Write numbers to 1,000,000 in unit form and expanded form by using place value structure.
NY-4.NBT.2a, MP7, 4.Mod1.AD7

Lesson 8: Write numbers to 1,000,000 in standard form and word form.
NY-4.NBT.2a, MP3, 4.Mod1.AD7

Lesson 9: Compare numbers within 1,000,000 by using >, =, and <.
NY-4.NBT.2b, MP6, 4.Mod1.AD8

Topic C: Rounding Multi-Digit Whole Numbers

Lesson 10: Name numbers by using place value understanding.
NY-4.NBT.2a, MP8, 4.Mod1.AD7

Module 2

Lesson 6: Multiply with regrouping by using place value strategies and the distributive property.
NY-4.NBT.5, MP6, 4.Mod2.AD6

Lesson 7: Multiply by using an area model and the distributive property.
NY-4.NBT.5, NY-4.MD.3, MP7, 4.Mod2.AD6, 4.Mod2.AD11

Lesson 8: Multiply by applying the distributive property and write equations.
NY-4.NBT.5, MP3, 4.Mod2.AD6

Lesson 9: Solve multiplication word problems.
NY-4.OA.2, NY-4.NBT.5, MP5, 4.Mod2.AD1, 4.Mod2.AD6, 4.Mod1.AD13

Lesson 10: Multiply by applying simplifying strategies.
NY-4.NBT.5, MP5, 4.Mod2.AD6

Topic C: Division of Tens and Ones by One-Digit Numbers

Lesson 11: Divide by using familiar strategies.
NY-4.NBT.6, MP2, 4.Mod2.AD7

Module 3

Lesson 6: Connect pictorial representations of division to long division.
NY-4.NBT.6, MP6, 4.Mod3.AD3

Lesson 7: Represent division by using partial quotients.
NY-4.NBT.6, MP8, 4.Mod3.AD3

Lesson 8: Choose and apply a method to divide multi-digit numbers.
NY-4.NBT.6, MP6, 4.Mod3.AD3

Topic C: Multiplication of up to Four-Digit Numbers by One-Digit Numbers

Lesson 9: Apply place value strategies to multiply three-digit numbers by one-digit numbers.
NY-4.NBT.5, MP5, 4.Mod3.AD2

Lesson 10: Apply place value strategies to multiply four-digit numbers by one-digit numbers.
NY-4.NBT.5, MP7, 4.Mod3.AD2

Lesson 11: Represent multiplication by using partial products.
NY-4.NBT.5, MP8, 4.Mod3.AD2

Lesson 12: Multiply by using various recording methods in vertical form.
NY-4.NBT.5, MP6, 4.Mod3.AD2

Module 4

Topic B: Equivalent Fractions

Lesson 7: Rename fractions as a sum of equivalent smaller unit fractions.
NY-4.NF.3a, NY-4.NF.3b, MP2, 4.Mod4.AD4

Lesson 8: Generate equivalent fractions with smaller units for unit fractions.
NY-4.NF.1, MP8, 4.Mod4.AD1, 4.Mod4.AD2

Lesson 9: Generate equivalent fractions with smaller units for non-unit fractions.
NY-4.NF.1, MP7, 4.Mod4.AD1, 4.Mod4.AD2

Lesson 10: Generate equivalent fractions with larger units.
NY-4.NF.1, MP6, 4.Mod4.AD1, 4.Mod4.AD2

Lesson 11: Represent equivalent fractions by using tape diagrams, number lines, and multiplication or division.
NY-4.NF.1, MP8, 4.Mod4.AD1, 4.Mod4.AD2

Lesson 12: Generate equivalent fractions for fractions greater than 1 and generate equivalent mixed numbers.
NY-4.NF.1, MP3, 4.Mod4.AD1, 4.Mod4.AD2

Module 5

Topic B: Angle Measurement

Lesson 7: Explore angles as fractional turns through a circle.
NY-4.MD.5, NY-4.MD.5a, NY-4.MD.5b, MP7, 4.Mod5.AD6

Lesson 8: Use a circular protractor to recognize a 1° angle as a turn through $\frac{1}{360}$ of a circle.
NY-4.MD.5, NY-4.MD.5a, NY-4.MD.5b, NY-4.MD.6, MP8, 4.Mod5.AD6, 4.Mod5.AD7

Lesson 9: Identify and measure angles as turns and recognize them in various contexts.
NY-4.MD.5, NY-4.MD.5a, NY-4.MD.5b, MP2, 4.Mod5.AD6

Lesson 10: Use 180° protractors to measure angles.
NY-4.MD.5, NY-4.MD.5a, NY-4.MD.5b, NY-4.MD.6, NY-4.G.1, MP6, 4.Mod5.AD6, 4.Mod5.AD7, 4.Mod5.AD9

Lesson 11: Estimate and measure angles with a 180° protractor.
NY-4.MD.5, NY-4.MD.5a, NY-4.MD.5b, NY-4.MD.6, NY-4.G.1, MP6, 4.Mod5.AD6, 4.Mod5.AD7, 4.Mod5.AD9

Lesson 12: Use a protractor to draw angles up to 180°.
NY-4.MD.6, NY-4.G.1, MP6, 4.Mod5.AD7, 4.Mod5.AD9

Module 6

Lesson 6: Represent hundredths as a place value unit.
NY-4.NF.5, NY-4.NF.6, MP3, 4.Mod6.AD8, 4.Mod6.AD10

Lesson 7: Write mixed numbers in decimal form with hundredths.
NY-4.NF.5, NY-4.NF.6, MP7, 4.Mod6.AD8, 4.Mod6.AD10

Lesson 8: Represent decimal numbers in expanded form.
NY-4.NF.5, NY-4.NF.6, MP2, 4.Mod6.AD8, 4.Mod6.AD10

Topic C: Comparison of Decimal Numbers

Lesson 9: Compare measurements expressed as decimal numbers.
NY-4.NF.7, MP2, 4.Mod6.AD11

Lesson 10: Use pictorial representations to compare decimal numbers.
NY-4.NF.7, MP5, 4.Mod6.AD11

Lesson 11: Compare and order decimal numbers.
NY-4.NF.7, MP3, 4.Mod6.AD11

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Lesson 11: Find 1, 10, and 100 thousand more than and less than a given number.
NY-4.NBT.2a, MP1, 4.Mod1.AD7

Lesson 12: Round to the nearest thousand.
NY-4.NBT.3, MP6, 4.Mod1.AD9

Lesson 13: Round to the nearest ten thousand and hundred thousand.
NY-4.NBT.3, MP6, 4.Mod1.AD9

Lesson 14: Round multi-digit numbers to any place.
NY-4.NBT.3, MP8, 4.Mod1.AD9

Lesson 15: Apply estimation to real-world situations by using rounding.
NY-4.OA.3b, NY-4.NBT.3, MP3, 4.Mod1.AD4, 4.Mod1.AD9

Topic D: Multi-Digit Whole Number Addition and Subtraction

Lesson 16: Add by using the standard algorithm.
NY-4.OA.3b, NY-4.NBT.4, MP4, 4.Mod1.AD4, 4.Mod1.AD10

Lesson 12: Divide two-digit numbers by one-digit numbers by using an area model.
NY-4.NBT.6, MP7, 4.Mod2.AD7

Lesson 13: Divide three-digit numbers by one-digit numbers by using an area model.
NY-4.NBT.6, MP3, 4.Mod2.AD7

Lesson 14: Divide two-digit numbers by one-digit numbers by using place value strategies.
NY-4.NBT.6, MP6, 4.Mod2.AD7

Lesson 15: Divide three-digit numbers by one-digit numbers by using place value strategies.
NY-4.NBT.6, MP7, 4.Mod2.AD7

Lesson 16: Divide by using the break apart and distribute strategy.
NY-4.NBT.6, MP1, 4.Mod2.AD7

Topic D: Problem Solving with Measurement

Lesson 17: Express measurements of length in terms of smaller units.
NY-4.MD.1, NY-4.MD.2, NY-4.MD.2a, NY-4.MD.2b, MP8, 4.Mod2.AD8, 4.Mod2.AD9, 4.Mod2.AD10

Topic D: Multiplication of Two-Digit Numbers by Two-Digit Numbers

Lesson 13: Multiply two-digit numbers by two-digit multiples of 10.
NY-4.NBT.5, MP5, 4.Mod3.AD2

Lesson 14: Apply place value strategies to multiply two-digit numbers by two-digit numbers.
NY-4.NBT.5, MP2, 4.Mod3.AD2

Lesson 15: Multiply with four partial products.
NY-4.NBT.5, MP6, 4.Mod3.AD2

Lesson 16: Multiply with two partial products.
NY-4.NBT.5, MP7, 4.Mod3.AD2

Lesson 17: Apply the distributive property to multiply.
NY-4.NBT.5, MP2, 4.Mod3.AD2

Topic E: Problem Solving with Measurement

Lesson 18: Express units of time in terms of smaller units.
NY-4.MD.1, NY-4.MD.2, NY-4.MD.2a, MP1, 4.Mod3.AD4, 4.Mod3.AD5

Topic C: Compare Fractions

Lesson 13: Compare fractions by using the benchmarks 0, $\frac{1}{2}$, and 1.
NY-4.NF.2, MP3, 4.Mod4.AD3

Lesson 14: Compare fractions with related denominators.
NY-4.NF.2, MP5, 4.Mod4.AD3

Lesson 15: Compare fractions with related numerators.
NY-4.NF.2, MP5, 4.Mod4.AD3

Lesson 16: Generate a common numerator or denominator to compare fractions.
NY-4.NF.2, MP1, 4.Mod4.AD3

Lesson 17: Apply fraction comparison strategies to compare fractions greater than 1.
NY-4.NF.2, MP7, 4.Mod4.AD3

Topic D: Add and Subtract Fractions

Lesson 18: Estimate sums and differences of fractions by using benchmarks.
NY-4.NF.3a, NY-4.NF.3b, NY-4.NF.3d, NY-4.MD.2, NY-4.MD.2a, MP3, 4.Mod4.AD4, 4.Mod4.AD7

Topic C: Determine Unknown Angle Measures

Lesson 13: Decompose angles by using pattern blocks.
NY-4.MD.7, MP2, 4.Mod5.AD8

Lesson 14: Find unknown angle measures within right and straight angles.
NY-4.MD.7, MP7, 4.Mod5.AD8

Lesson 15: Find unknown angle measures within a decomposed angle of up to $180°$.
NY-4.MD.7, MP5, 4.Mod5.AD8

Lesson 16: Find unknown angle measures around a point.
NY-4.MD.7, MP1, 4.Mod5.AD8

Topic D: Two-Dimensional Figures and Symmetry

Lesson 17: Recognize, identify, and draw lines of symmetry.
NY-4.G.3, MP7, 4.Mod5.AD14

Lesson 18: Analyze and classify triangles based on side length, angle measures, or both.
NY-4.G.1, NY-4.G.2a, MP3, 4.Mod5.AD10, 4.Mod5.AD11

Topic D: Addition of Tenths and Hundredths

Lesson 12: Apply fraction equivalence to add tenths and hundredths.
NY-4.NF.5, MP1, 4.Mod6.AD9

Lesson 13: Apply fraction equivalence to add mixed numbers with tenths and hundredths.
NY-4.NF.5, MP7, 4.Mod6.AD9

Lesson 14: Solve word problems with tenths and hundredths.
NY-4.NF.5, NY-4.MD.2, NY-4.MD.2a, MP4, 4.Mod6.AD9, 4.Mod6.AD12

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Lesson 17: Solve multi-step addition word problems by using the standard algorithm. NY-4.OA.3, NY-4.OA.3a, NY-4.OA.3b, NY-4.NBT.4, MP2, 4.Mod1.AD5, 4.Mod1.AD10	**Lesson 18:** Investigate and use formulas for the perimeter of a rectangle. NY-4.MD.3, MP4, 4.Mod2.AD11	**Lesson 19:** Express customary measurements of weight in terms of smaller units. NY-4.MD.1, NY-4.MD.2, NY-4.MD.2a, MP4, 4.Mod3.AD4, 4.Mod3.AD5	**Lesson 19:** Add and subtract fractions with like units. NY-4.NF.3a, NY-4.NF.3b, MP4, 4.Mod4.AD4	**Lesson 19:** Construct and classify triangles based on given attributes. (Optional) NY-4.G.1, NY-4.G.2a, MP6, 4.Mod5.AD10, 4.Mod5.AD11	
Lesson 18: Subtract by using the standard algorithm, decomposing larger units once. NY-4.NBT.4, MP6, 4.Mod1.AD10	**Lesson 19:** Apply area and perimeter formulas to solve problems. NY-4.MD.3, MP2, 4.Mod2.AD11	**Lesson 20:** Express customary measurements of liquid volume in terms of smaller units. NY-4.MD.1, NY-4.MD.2, NY-4.MD.2a, MP5, 4.Mod3.AD4, 4.Mod3.AD5	**Lesson 20:** Subtract a fraction from a whole number. NY-4.NF.3a, NY-4.NF.3b, NY-4.NF.3d, NY-4.MD.2, NY-4.MD.2a, MP1, 4.Mod4.AD4, 4.Mod4.AD7	**Lesson 20:** Sort polygons based on a given rule. NY-4.G.1, NY-4.G.2b, NY-4.G.2c, MP1, 4.Mod5.AD10, 4.Mod5.AD12, 4.Mod5.AD13	
Lesson 19: Subtract by using the standard algorithm, decomposing larger units up to 3 times. NY-4.NBT.4, MP1, 4.Mod1.AD10	**Lesson 20:** Solve word problems involving additive and multiplicative comparisons. NY-4.OA.2, NY-4.MD.2, NY-4.MD.2a, NY-4.MD.2b, NY-4.MD.3, MP1, 4.Mod2.AD1, 4.Mod2.AD9, 4.Mod2.AD10, 4 Mod2.AD11	**Topic F: Remainders, Estimating, and Problem Solving**	**Lesson 21:** Solve addition and subtraction word problems and estimate the reasonableness of the answers. NY-4.NF.3a, NY-4.NF.3b, NY-4.NF.3d, NY-4.MD.2, NY-4.MD.2a, MP1, 4.Mod4.AD4, 4.Mod4.AD7	■	
Lesson 20: Subtract by using the standard algorithm, decomposing larger units multiple times. NY-4.NBT.4, MP7, 4.Mod1.AD10	**Topic E: Factors and Multiples**	**Lesson 21:** Find whole-number quotients and remainders. NY-4.OA.3, NY-4.OA.3a, NY-4.OA.3b, NY-4.NBT.6, MP2, 4.Mod3.AD1, 4.Mod3.AD3	**Lesson 22:** Add two fractions with related units. (Optional) NY-4.NF.3a, NY-4.NF.3b, MP5, 4.Mod4.AD4		
Lesson 21: Solve two-step word problems by using addition and subtraction. NY-4.OA.3, NY-4.OA.3a, NY-4.OA.3b, NY-4.NBT.4, MP4, 4.Mod1.AD5, 4.Mod1.AD10	**Lesson 21:** Find factor pairs for numbers up to 100 and use factors to identify numbers as prime or composite. NY-4.OA.4, MP6, 4.Mod2.AD2, 4.Mod2.AD4	**Lesson 22:** Represent, estimate, and solve division word problems. NY-4.OA.3, NY-4.OA.3a, NY-4.OA.3b, NY-4.NBT.6, MP1, 4.Mod3.AD1, 4.Mod3.AD3	**Topic E: Add and Subtract Mixed Numbers**		
Lesson 22: Solve multi-step word problems by using addition and subtraction. NY-4.OA.3, NY-4.OA.3a, NY-4.OA.3b, NY-4.NBT.4, MP2, 4.Mod1.AD5, 4.Mod1.AD10	**Lesson 22:** Use division and the associative property of multiplication to find factors. NY-4.OA.4, MP3, 4.Mod2.AD2, 4.Mod2.AD4	**Lesson 23:** Solve multi-step word problems and interpret remainders. NY-4.OA.3, NY-4.OA.3a, NY-4.OA.3b, MP4, 4.Mod3.AD1	**Lesson 23:** Add a fraction to a mixed number. NY-4.NF.3c, MP7, 4.Mod4.AD5		
	Lesson 23: Determine whether a whole number is a multiple of another number. NY-4.OA.4, MP7, 4.Mod2.AD3		**Lesson 24:** Add a mixed number to a mixed number. NY-4.NF.3c, NY-4.NF.3d, NY-4.MD.2, NY-4.MD.2a, MP7, 4.Mod4.AD5, 4.Mod4.AD7		

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Topic E: Metric Measurement Conversion Tables **Lesson 23:** Express metric measurements of length in terms of smaller units. NY-4.MD.1, NY-4.MD.2, NY-4.MD.2a, MP7, 4.Mod1.AD11, 4.Mod1.AD12 **Lesson 24:** Express metric measurements of mass and liquid volume in terms of smaller units. NY-4.MD.1, NY-4.MD.2, NY-4.MD.2a, MP5, 4.Mod1.AD11, 4.Mod1.AD12 ■	**Lesson 24:** Recognize that a number is a multiple of each of its factors. NY-4.OA.4, MP8, 4.Mod2.AD3 **Lesson 25:** Explore properties of prime and composite numbers up to 100 by using multiples. NY-4.OA.4, MP3, 4.Mod2.AD3, 4.Mod2.AD4 **Lesson 26:** Use relationships within a pattern to find an unknown term in the sequence. NY-4.OA.5, MP6, 4.Mod2.AD5, 4.Mod2.AD14 ■	**Lesson 24:** Solve multi-step word problems and assess the reasonableness of solutions. NY-4.OA.3, NY-4.OA.3a, NY-4.OA.3b, MP3, 4.Mod3.AD1 ■	**Lesson 25:** Subtract a fraction from a mixed number, part 1. NY-4.NF.3c, MP6, 4.Mod4.AD6 **Lesson 26:** Subtract a fraction from a mixed number, part 2. NY-4.NF.3c, MP7, 4.Mod4.AD6 **Lesson 27:** Subtract a mixed number from a mixed number. NY-4.NF.3c, NY-4.NF.3d, NY-4.MD.2, NY-4.MD.2a, MP2, 4.Mod4.AD6, 4.Mod4.AD7 **Lesson 28:** Represent and solve word problems with mixed numbers by using drawings and equations. NY-4.NF.3d, NY-4.MD.2, NY-4.MD.2a, MP4, 4.Mod4.AD7 **Lesson 29:** Solve problems by using data from a line plot. NY-4.MD.4, MP1, 4.Mod4.AD11 **Lesson 30:** Represent data on a line plot. NY-4.MD.4, MP6, 4.Mod4.AD11 **Topic F: Repeated Addition of Fractions as Multiplication** **Lesson 31:** Decompose non-unit fractions into a product of a whole number and a unit fraction. NY-4.NF.4a, MP7, 4.Mod4.AD8 ▼		

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			Lesson 32: Multiply a fraction by a whole number by using the associative property. **NY-4.NF.4b, MP8, 4.Mod4.AD9** **Lesson 33:** Solve word problems involving multiplication of a fraction by a whole number. **NY-4.NF.4b, NY-4.NF.4c, NY-4.MD.2, NY-4.MD.2a, MP2, 4.Mod4.AD9, 4.Mod4.AD10** **Lesson 34:** Multiply a mixed number by a whole number by using the distributive property. **NY-4.NF.4b, MP3, 4.Mod4.AD9** ■		