<table>
<thead>
<tr>
<th>Lesson 1</th>
<th>Lesson 2</th>
<th>Lesson 3</th>
<th>Lesson 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reason concretely and pictorially using place value understanding to relate adjacent base ten units from millions to thousandths</td>
<td>Reason abstractly using place value understanding to relate adjacent base ten units from millions to thousandths</td>
<td>Use exponents to name place value units and explain patterns in the placement of the decimal point</td>
<td>Use exponents to denote powers of 10 with application to metric conversions.</td>
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<tr>
<td>Lesson 5</td>
<td>Lesson 6</td>
<td>Lesson 7</td>
<td>Lesson 8</td>
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<tr>
<td>Name decimal fractions in expanded, unit, and word forms by applying place value reasoning</td>
<td>Compare decimal fractions to the thousandths using like units, and express comparisons with &gt;, &lt;, =.</td>
<td>Round a given decimal to any place using place value understanding and the vertical number line</td>
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<tr>
<td>Lesson 9</td>
<td>Lesson 10</td>
<td>Lesson 11</td>
<td>Lesson 12</td>
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<tr>
<td>Add decimals using place value strategies and relate those strategies to a written method</td>
<td>Subtract decimals using place value strategies and relate those strategies to a written method</td>
<td>Multiply a decimal fraction by single-digit whole numbers, relate to a written method through application of the area model and place value understanding, and explain the reasoning used</td>
<td>Multiply a decimal fraction by single-digit whole numbers, including using estimation to confirm the placement of the decimal point</td>
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<tr>
<td>Lesson 13</td>
<td>Lesson 14</td>
<td>Lesson 15</td>
<td>Lesson 16</td>
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<tr>
<td>Divide decimals by single-digit whole numbers involving easily identifiable multiples using place value understanding and relate to a written method</td>
<td>Divide decimals with a remainder using place value understanding and relate to a written method</td>
<td>Divide decimals using place value understanding including remainders in the smallest unit</td>
<td>Solve word problems using decimal operations</td>
</tr>
<tr>
<td>Lesson 1</td>
<td>Multiply multi-digit whole numbers and multiples of 10 using place value patterns and the distributive and associative properties</td>
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<tr>
<td>Lesson 2</td>
<td>Estimate multi-digit products by rounding factors to a basic fact and using place value patterns</td>
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<tr>
<td>Lesson 3</td>
<td>Write and interpret numerical expressions, and compare expressions using a visual model</td>
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<tr>
<td>Lesson 4</td>
<td>Convert numerical expressions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Lesson 5 | Connect visual models and the distributive property to partial products of the standard algorithm without renaming |
| Lesson 6 | Connect area models and the distributive property to partial products of the standard algorithm with renaming |
| Lesson 7 | Connect area models and the distributive property to partial products of the standard algorithm with renaming |
| Lesson 8 | Fluently multiply multi-digit whole numbers using the standard algorithm and using estimation to check for reasonableness of the product |

| Lesson 9 | Fluently multiply multi-digit whole numbers using the standard algorithm to solve multi-step word problems |
| Lesson 10 | Multiply decimal fractions with tenths by multi-digit whole numbers using place value understanding to record partial products |
| Lesson 11 | Multiply decimal fractions by multi-digit whole numbers through conversion to a whole number problem and reasoning about the placement of the decimal |
| Lesson 12 | Reason about the product of a whole number and a decimal with hundredths using place value understanding and estimation |

| Lesson 13 | Use whole number multiplication to express equivalent measurements |
| Lesson 14 | Use fraction and decimal multiplication to express equivalent measurements |
| Lesson 15 | Solve two-step word problems involving measurement conversions |
| Lesson 16 | Use divide by 10 patterns for multi-digit whole number division |

| Lesson 17 | Use basic facts to approximate quotients with two-digit divisors |
| Lesson 18 | Use basic facts to approximate quotients with two-digit divisors |
| Lesson 19 | Divide two- and three-digit dividends by multiples of 10 with single-digit quotients, and make connections to a written method |
| Lesson 20 | Divide two- and three-digit dividends by two-digit divisors with single-digit quotients, and make connections to a written method |

| Lesson 21 | Divide two- and three-digit dividends by two-digit divisors with single-digit quotients, and make connections to a written method |
| Lesson 22 | Divide three- and four-digit dividends by two-digit divisors resulting in two- and three-digit quotients, reasoning about the decomposition of successive remainders in each place value |
| Lesson 23 | Divide three- and four-digit dividends by two-digit divisors resulting in two- and three-digit quotients, reasoning about the decomposition of successive remainders in each place value |
| Lesson 24 | Divide decimal dividends by multiples of 10, reasoning about the placement of the decimal point and making connections to a written method |
Lesson 25

Use basic facts to approximate decimal quotients with two-digit divisors, reasoning about the placement of the decimal point.

Lesson 26

Divide decimal dividends by two-digit divisors, estimating quotients, reasoning about the placement of the decimal point, and making connections to a written method.

Lesson 27

Divide decimal dividends by two-digit divisors, estimating quotients, reasoning about the placement of the decimal point, and making connections to a written method.

Lesson 28

Solve division word problems involving multi-digit division with group size unknown and the number of groups unknown.

Lesson 29

Solve division word problems involving multi-digit division with group size unknown and the number of groups unknown.
Lesson 1
Make equivalent fractions with the number line, the area model, and numbers

Lesson 2
Make equivalent fractions with sums of fractions with like denominators

Lesson 3
Add fractions with unlike units using the strategy of creating equivalent fractions

Lesson 4
Add fractions with sums between 1 and 2

Lesson 5
Subtract fractions with unlike units using the strategy of creating equivalent fractions

Lesson 6
Subtract fractions from numbers between 1 and 2

Lesson 7
Solve two-step word problems

Lesson 8
Add fractions to and subtract fractions from whole numbers using equivalence and the number line as strategies

Lesson 9
Add fractions making like units numerically

Lesson 10
Add fractions with sums greater than 2

Lesson 11
Subtract fractions making like units numerically

Lesson 12
Subtract fractions greater than or equal to 1

Lesson 13
Use fraction benchmark numbers to assess reasonableness of addition and subtraction equations

Lesson 14
Strategize to solve multi-step word problems

Lesson 15
Solve multi-step word problems; assess reasonableness of solutions using benchmark numbers.

Lesson 16
Explore part-to-whole relationships
Lesson 1
Measure and compare pencil lengths to the nearest half, quarter, and eighth of an inch, and analyze the data through line plots.

Lesson 2
Interpret a fraction as division.

Lesson 3
Interpret a fraction as division.

Lesson 4
Use tape diagrams to model fractions as division.

Lesson 5
Solve word problems.

Lesson 6
Relate fractions as division to fraction of a set.

Lesson 7
Multiply any whole number by a fraction using tape diagrams.

Lesson 8
Relate a fraction of a set to the repeated addition interpretation of fraction multiplication.

Lesson 9
Find a fraction of a measurement, and solve word problems.

Lesson 10
Compare and evaluate expressions with parentheses.

Lesson 11
Solve and create fraction word problems involving addition, subtraction, and multiplication.

Lesson 12
Solve and create fraction word problems involving addition, subtraction, and multiplication.

Lesson 13
Multiply unit fractions by unit fractions.

Lesson 14
Multiply unit fractions by non-unit fractions.

Lesson 15
Multiply non-unit fractions by non-unit fractions.

Lesson 16
Solve word problems using tape diagrams and fraction-by-fraction multiplication.

Lesson 17
Relate decimal and fraction multiplication.

Lesson 18
Relate decimal and fraction multiplication.

Lesson 19
Convert measures involving whole numbers, and solve multi-step word problems.

Lesson 20
Convert mixed unit measurements, and solve multi-step word problems.

Lesson 21
Explain the size of the product.

Lesson 22
Compare the size of the product to the size of the factors.

Lesson 23
Compare the size of the product to the size of the factors.

Lesson 24
Solve word problems using fraction and decimal multiplication.
Lesson 25
Divide a whole number by a unit fraction

Lesson 26
Divide a unit fraction by a whole number

Lesson 27
Solve problems involving fraction division

Lesson 28
Write equations and word problems

Lesson 29
Connect division by a unit fraction to division by 1 tenth and 1 hundredth

Lesson 30
Divide decimal dividends by non-unit decimal divisors

Lesson 31
Divide decimal dividends by non-unit decimal divisors

Lesson 32
Interpret and evaluate numerical expressions including the language of scaling and fraction division

Lesson 33
Create story contexts for numerical content

5th Grade Module 4 QR Codes
| Lesson 1 | Explore volume by building with and counting unit cubes |
| Lesson 2 | Find the volume of a right rectangular prism by packing with cubic units and counting |
| Lesson 3 | Compose and decompose right rectangular prisms using layers |
| Lesson 4 | Use multiplication to calculate volume |
| Lesson 5 | Use multiplication to connect |
| Lesson 6 | Find the total volume of solid figures composed of two non-overlapping rectangular prisms |
| Lesson 7 | Solve word problems involving the volume of rectangular prisms with whole number edge lengths |
| Lesson 8 | Apply concepts and formulas of |
| Lesson 9 | Apply concepts for- |
| Lesson 10 | Find the area of rectangles with whole-by-whole and whole-by-fractional number side lengths by tiling, record by drawing, and relate to fraction multiplication |
| Lesson 11 | Find the area of rectangles with mixed-by-mixed and fraction-by-fraction side lengths by tiling, record by drawing, and relate to fraction multiplication |
| Lesson 12 | Measure to find the area |
| Lesson 13 | Multiply mixed numbers |
| Lesson 14 | Solve real problems involving area |
| Lesson 15 | Solve real problems involving area of figures |
| Lesson 16 | Draw trapezoids to clarify their attributes, and define trapezoids based on those attributes |
| Lesson 17 | Draw parallelograms to clarify their attributes, and define parallelograms based on those attributes |
| Lesson 18 | Draw rectangles and rhombuses to clarify their attributes, and define rectangles and rhombuses based on those attributes |
| Lesson 19 | Draw kites and squares to clarify their attributes, and define kites and squares based on those attributes |
| Lesson 20 | Classify two-dimensional figures in a hierarchy based on properties |
| Lesson 21 | Draw and identify |
Lesson 1
Construct a coordinate system on a line

Lesson 2
Construct a coordinate system on a plane.

Lesson 3
Name points using coordinate pairs, and use the coordinate pairs to plot points

Lesson 4
Name points using

Lesson 5
Investigate patterns in vertical

Lesson 6
Investigate patterns in vertical

Lesson 7
Plot points, use them to draw lines in the plane, and describe patterns within the coordinate pairs

Lesson 8
Generate a number pattern from a given rule, and plot the points

Lesson 9
Generate two number patterns from given rules, plot the points, and analyze the patterns

Lesson 10
Compare the lines and patterns generated by addition rules and multiplication rules

Lesson 11
Analyze number patterns created from mixed operations

Lesson 12
Create a rule to generate a number pattern, and plot the points

Lesson 13
Construct parallel line

Lesson 14
Construct parallel line segments,

Lesson 15
Construct perpendicular

Lesson 16
Construct perpendicular

Lesson 17
Draw symmetric figures using

Lesson 18
Draw symmetric figures on the coordinate plane

Lesson 19
Plot data on line graphs and analyze trends

Lesson 20
Use coordinate

There were no videos available for Lessons 21-34.