

Unit 1: Whole Numbers, Place Value and Rounding in Computation

Understand multi-digit whole number place value concepts | 4.NBT.1

Use a place value chart and arrow cards to understand large numbers LZ514

Model numbers using base ten blocks LZ515

Understand relationships between digits and their place value LZ516

Multiply by powers of 10 LZ805

Divide by powers of 10 LZ806

Read, write, and compare multi-digit whole numbers | 4.NBT.2

Read and write numbers in numeric form LZ517

Read and write numbers in word form LZ518

Read and write numbers in expanded form LZ519

Read and write numbers with zeros LZ520

Compare numbers using the symbols $<$, $>$, and $=$ LZ521

Creating numbers based on given conditions by comparing digits LZ522

Round multi-digit whole numbers to any place | 4.NBT.3

Locate benchmark numbers on a number line LZ523

Round numbers to the leading digit using a number line LZ524

Round numbers to a specified place on a number line LZ525

Round 9's using base ten blocks LZ526

Round in real-life situations LZ527

Add and subtract using the standard algorithm | 4.NBT.4

Add using partial sums LZ3121

Add using an open number line LZ3057

Add using the standard addition algorithm LZ3122

Subtract using an open number line LZ3123

Subtract using the standard subtraction algorithm LZ3160

Unit 2: Multiplication and Division of Whole Numbers

Interpret multiplication as a comparison | 4.OA.1

The commutative property LZ2357

Comparing numbers using bar models LZ2569

See multiplication as a comparison using number sentences LZ2543

Solve word problems using multiplicative comparisons | 4.OA.2

Compare numbers using additive and multiplicative comparisons LZ2891

Represent unknown numbers using symbols or letters LZ2744

Solve multiplicative comparison word problems by using bar models LZ2745

Solve multiplicative comparison word problems by using a multiplication sentence LZ2746

Solve multiplicative comparison word problems by using bar models to represent division LZ2851

Solve multiplicative comparison word problems by using a division sentence LZ2864

Solve multiplicative comparison word problems using multiplication or division LZ3017

Solve multi-step word problems using the four operations | 4.OA.3

- Estimate to assess whether an answer is reasonable LZ3049
- Solve word problems using objects LZ2998
- Solve word problems by drawing pictures LZ2943
- Solve word problems by writing an equation LZ2944
- Solve multi-step word problems by writing an equation LZ3079

Find and understand factors and determine if a number is a multiple of a given number for whole numbers 0-100 | 4.OA.4

- Find all the factor pairs of a number using area models LZ780
- Determine multiples of a number using area models LZ781
- Find all factor pairs using a rainbow factor line LZ782
- Determine multiples of a number using number bonds LZ783
- Use divisibility rules to determine if a number is a multiple of 2, 5, or 10 LZ784
- Find all factor pairs of a number using a t-chart LZ785
- Determine if a number is prime or composite using area models LZ786
- Use divisibility rules to determine if a number is a multiple of 2, 3, or 6 LZ787
- Use divisibility rules to determine if a number is a multiple of 4 or 7 LZ788
- Determine multiples of a number using a table LZ789
- Find multiples by using a number line LZ799

Generate number or shape patterns that follow a given rule and identifying pattern features | 4.OA.5

- Find the rule for a function machine using a vertical table LZ790
- Understand repeating patterns LZ791
- Find missing elements in growing patterns LZ792
- Find the 9th shape for a geometric pattern using a table LZ793
- Determine the rule in patterns that decrease LZ794
- Using a table to find the rule for a geometric triangle pattern LZ795
- Generate a pattern sequence using a t-chart LZ797
- Find the missing inputs for a function machine using a vertical table LZ798

Multiply multi-digit whole numbers | 4.NBT.5

- Use an array to multiply a two digit number by a one digit number LZ1875
- Use area models to show multiplication of whole numbers LZ1876
- Use place value understanding to multiply three and four digit numbers LZ1878
- Use an area model for multiplication of two-digit numbers by two-digit numbers LZ1879
- Use an area model to multiply a three digit number by a one digit number LZ1877

[Find whole number quotients and remainders with up to four-digit dividends | 4.NBT.6](#)

Divide two-digit dividends using friendly multiples LZ1482

Report remainders as fractions LZ1480

Report remainders as whole numbers by drawing pictures to decide whether to round up or down LZ1481

Divide three-digit dividends LZ1483

Divide four-digit dividends LZ1484

Unit 3: Fraction Equivalents

[Understand and explain equivalent fractions using visual models | 4.NF.1](#)

Recognize equivalent fractions using area models LZ616

Recognize equivalent fractions using number lines LZ617

Generate equivalent fractions using area models LZ618

Generate equivalent fractions using number lines LZ619

Generate equivalent fractions by multiplying or dividing by 1 LZ620

Extend a fraction pattern using a number line (OA.5) LZ796

[Compare fractions by creating common denominators or numerators \(2\) | 4.NF.2](#)

Compare fractions using the benchmark fraction $\frac{1}{2}$ LZ1431

Compare fractions using the benchmark of one whole LZ1432

Compare fractions with different denominators using number lines LZ1433

Compare fractions with different denominators using area models LZ1434

Compare fractions with different denominators using set models LZ1435

Compare fractions by creating common denominators LZ1436

Use a number line to represent a fraction greater than one LZ1437

Represent a fraction greater than one using area models LZ1438

Unit 4: Operations with Fractions

[Understand addition and subtraction of fractions and decomposing fractions \(1\) | 4.NF.3a,4.NF.3b](#)

Add fractions by joining parts LZ1421

Subtract fractions by separating parts LZ1422

Decompose fractions LZ1423

[Add and subtract mixed numbers with like denominators | 4.NF.3c](#)

Adding mixed numbers by creating equivalent fractions LZ850

Subtracting mixed numbers by creating equivalent fractions LZ851

Adding mixed numbers using properties of operations LZ852

Subtracting mixed numbers by using properties of operations LZ853

[Solve word problems involving addition and subtraction of fractions with like denominators | 4.NF.3d](#)

Add fractions with like denominators by decomposing into unit fractions LZ2777

Subtract fractions with like denominators by decomposing LZ2947

Add fractions with like denominators using a number line LZ2898

Subtract fractions with like denominators using a number line LZ2906

Add fractions with like denominators using visual models LZ2866

Subtract fractions with like denominators using visual models LZ2983

[Understand multiplication of fractions by whole numbers | 4.NF.4a,4.NF.4b](#)

Represent fractions as the sum of unit fractions using pictures LZ2696

Represent a fraction as the sum of unit fractions using number line LZ2971

Represent a fraction as the sum of unit fractions using an area model LZ3026

Estimate products in multiplication of whole numbers and fractions LZ2927

Use a number line for multiplication of fractions and whole numbers LZ2938

Use a fraction model for multiplication of fractions and whole numbers LZ2939

Use repeated addition for multiplication of fractions and whole numbers LZ3076

[Solve word problems involving multiplication of fractions by whole numbers | 4.NF.4c](#)

Solve problems involving a fraction and a whole number using repeated addition LZ2493

Solve problems involving a fraction and a whole number using a number line LZ2832

Solve word problems involving multiplying a fraction and a whole number using a fraction model LZ2845

Solve problems involving multiplying a fraction and a whole number by converting a whole number into a fraction LZ3066

Unit 5: Fractions and Decimals

[Express fractions with a denominator of 10 as equivalent to fractions with denominators of 100 | 4.NF.5](#)

Use a number line to show how fractions with denominators 10 and 100 are equivalent LZ2841

Use a grid model to show how fractions with denominators 10 and 100 are equivalent LZ2749

Generate equivalent fractions using a grid model LZ2970

Add fractions with denominators 10 and 100 LZ2975

[Use decimal notation for fractions with denominators 10 or 100 | 4.NF.6](#)

Convert decimals to fractions to the tenths place using number lines LZ1424

Convert decimals to fractions to the hundredths place using visual aids LZ1425

Convert fractions to decimals to the tenths place using visual aids and division LZ1426

Convert fractions to decimals to the hundredths place using division LZ1427

Compare two decimals to hundredths | 4.NF.7

Compare two decimals to the hundredths place using fraction models LZ3217

Compare two decimal dollar amounts using coin values LZ3158

Compare two decimals to the hundredths place using a number line LZ3354

Compare two decimal lengths using a ruler LZ3385

Unit 6: Geometry

Draw and identify points, lines, rays, and angles | 4.G.1

Draw points, lines, and line segments LZ2346

Classify and draw various types of angles LZ2395

Draw parallel and perpendicular lines LZ2313

Label and name points, lines, rays and angles using math notation LZ2416

Identify points, lines, rays and angles in a two-dimensional figure LZ2521

Classify two-dimensional shapes, including right triangles, using their properties | 4.G.2

Classify two-dimensional figures by examining their properties LZ2879

Classify triangles by examining their properties LZ3040

Classify right triangles LZ3069

Classify various quadrilaterals by describing their properties LZ2936

Classify quadrilaterals by examining their sides LZ2937

Classify parallelograms by examining their angles and sides LZ2988

Recognize and draw lines of symmetry and line-symmetric figures | 4.G.3

Identify line symmetry in irregular polygons LZ3214

Identify line symmetry in regular polygons LZ3096

Identify line symmetry in a geometric figure LZ3215

Unit 7: Measurement

Know relative sizes of measurement units | 4.MD.1

Compare and convert customary units of length LZ2316

Compare and convert customary units of weight LZ2317

Compare and convert metric units of length LZ2571

Compare and convert metric units of weight LZ2631

Compare and convert metric units of volume LZ2498

Solve word problems involving the conversion of measurement data | 4.MD.2

- Convert measurements to solve distance problems LZ2542
- Convert measurements to solve volume problems LZ2548
- Convert measurements to solve weight problems LZ2551
- Convert time units to solve time problems LZ2563
- Solve real life problems using operations and measurement conversions LZ3212

Apply formulas for area and perimeter | 4.MD.3

- Use area models to find the area of rectangles LZ2374
- Find the area of a rectangle using the standard formula LZ2535
- Find missing side lengths using the formula for area LZ2425
- Find the perimeter of a rectangle using an area model LZ2942
- Find perimeter using the standard formula LZ3047
- Find missing side lengths using the formula for perimeter LZ3048

Create line plots to display data and use line plots to solve problems | 4.MD.4

- Create a line plot using a data set of fractional measures LZ3303
- Interpret data on a line plot by making observations LZ3476
- Solve addition problems using data from line plots LZ3382
- Solve subtraction problems using data from line plots LZ3492
- Solve word problems by creating and interpreting line plots LZ3494

Understand angles and concepts of angle measurement | 4.MD.5a,4.MD.5b

- Measure full and half rotations LZ2633
- Measure quarter and three-quarter rotations LZ2635
- Understand and measure one-degree angles LZ2586
- Estimate the measure of an angle using benchmark and one-degree angles LZ2766
- Solve real world problems involving angle measurement LZ2616

Measure and sketch angles using a protractor | 4.MD.6

- Introduction to protractors LZ2907
- Measure angles to the nearest 10 by reading a protractor LZ3010
- Measure angles to the nearest degree with protractors LZ2973
- Sketch angles that are multiples of 10 degrees using a protractor LZ2913
- Sketch angles that are not multiples of 10 degrees using a protractor LZ3101

Recognize angle measure as additive | 4.MD.7

Compose and decompose angles LZ3270

Understand that angle measure is additive by decomposing LZ3253

Find unknown angles using angle properties LZ3254

Find unknown angles using diagrams LZ3402

Write an equation to solve for a missing angle measure LZ3403