









Class: 1384A4 1ALEKS 4th - Level 5 Class Code: FJDTX-WNMMW
Subject: Mathematics - LV 5 Instructor: Bowen
Class Dates: 08/18/2021 - 05/20/2022 Class Content: 261 topics / 183 accessible topics



 Accessible Topic - Topics accessible to visually impaired students using a screen reader.

Place Value and Review of Arithmetic (58 Topics)




Whole Number Place Value and Numeral Translation (8 Topics)

- Whole number place value: Problem type 1 
- Whole number place value: Problem type 2 
- Comparing place values of digits in a whole number: Problem type 1 
- Numeral translation: Problem type 1 
- Numeral translation: Problem type 2 
- Expanded form: 2 and 3-digit numbers 
- Expanded form: 4 and 5-digit numbers 
- Expanded form with zeros 









Ordering Whole Numbers (2 Topics)

- Introduction to inequalities 
- Ordering large numbers 







Rounding Whole Numbers (3 Topics)

- Rounding to tens or hundreds 
- Rounding to hundreds or thousands 
- Rounding to thousands, ten thousands, or hundred thousands 

Adding Whole Numbers (15 Topics)

- One-digit addition with regrouping 
- Addition of 3 or 4 one-digit numbers 
- Adding 2-digit numbers without regrouping 
- Adding a 2-digit number and a 1-digit number with regrouping 
- Finding numbers that add to a multiple of 10
- Adding by making a ten
- Adding 2-digit numbers with regrouping a ten 
- Adding multiples of 10 and 100 
- Adding 2-digit numbers with regrouping a hundred
- Adding 3-digit numbers with regrouping
- Adding 3 or 4 numbers with two-digits with regrouping 
- Adding by making a hundred
- Addition without regrouping using place values
- Adding 3 numbers with two, three, and four-digits
- Introduction to properties of addition 

Subtracting Whole Numbers (10 Topics)

- Subtracting a 1-digit number from a 2-digit number 
- Subtraction of 2-digit numbers without regrouping 
- Subtracting multiples of 10 and 100 
- Subtraction involving 3-digit numbers without regrouping
- Subtraction of 2-digit numbers with regrouping 
- Subtraction with multiple regrouping steps involving 3-digit numbers
- Subtraction with multiple regrouping steps involving 4-digit numbers 
- Subtraction and regrouping with zeros 
- Fact families for addition and subtraction
- Word problem with addition or subtraction of whole numbers

Estimating Sums and Differences (2 Topics)

- Estimating a sum of whole numbers: Problem type 1 [↗](#)
- Estimating a difference of whole numbers: Problem type 1 [↗](#)

Understanding Multiplication (8 Topics)

- Using equal groups to find a total
- Multiplying one-digit numbers: Problem type 1
- Multiplying one-digit numbers: Problem type 2
- Multiplication as repeated addition [↗](#)
- Writing addition and multiplication sentences for equal groups
- Using multiplication to find the number of squares
- Multiplying 2-digit and 1-digit numbers without regrouping [↗](#)
- Word problem with multiplication of whole numbers

Understanding Division (6 Topics)

- Division facts: Problem type 1
- Division facts: Problem type 2 [↗](#)
- Relating multiplication and division facts
- Fact families for multiplication and division
- Division of whole numbers given in fractional form [↗](#)
- Word problem with division of whole numbers

Introduction to Perimeter and Area (4 Topics)

- Perimeter of a polygon [↗](#)
- Perimeter of a square or a rectangle [↗](#)
- Area of a rectangle on a grid
- Area of a rectangle with one-digit side lengths [↗](#)

Multiplying Whole Numbers (27 Topics)

Multiplication Patterns (5 Topics)

- Multiplication by 10, 100, and 1000 [↗](#)
- Introduction to multiplication with a trailing zero [↗](#)
- Multiplication with trailing zeros: Problem type 1 [↗](#)
- Multiples: Problem type 1 [↗](#)
- Multiples: Problem type 2 [↗](#)

Properties of Multiplication (3 Topics)

- Using the distributive property to multiply two whole numbers
- Introduction to properties of multiplication [↗](#)
- Introduction to parentheses [↗](#)

Multiplying Multi-Digit Numbers (10 Topics)

- Multiplying 2-digit and 1-digit numbers with regrouping: Problem type 1
- Multiplying 2-digit and 1-digit numbers with regrouping: Problem type 2
- Understanding multiplication of a one-digit number with a larger number
- Multiplying multi-digit and 1-digit numbers with regrouping
- Introduction to multiplication using an area model
- Multiplying a multi-digit and a 1-digit number using an area model
- Introduction to multiplication of large numbers [↗](#)
- Area of a rectangle with two-digit by one-digit side lengths
- Multiplication of large numbers [↗](#)
- Multiplication with trailing zeros: Problem type 2 [↗](#)

Estimating Products (1 Topic)

- Estimating a product [↗](#)

Comparisons and Word Problems Involving Multiplication (5 Topics)

- Multiplicative comparison involving groups of objects
- Word problem involving multiplicative or additive comparison
- Word problem with multiplication or division of whole numbers [↗](#)

- Word problem on unit rates associated with ratios of whole numbers: Whole number answers [?](#)
- Word problem with multiplication and addition or subtraction of whole numbers [?](#)

Exponents and Powers of Ten (3 Topics)

- Writing expressions using exponents [?](#)
- Introduction to exponents [?](#)
- Power of 10: Positive exponent [?](#)

Dividing Whole Numbers (21 Topics)

Dividing Two-Digit Dividends (6 Topics)

- Division without regrouping [?](#)
- Division with regrouping: 1-digit divisor, 2-digit dividend [?](#)
- Quotient with remainder: 1-digit divisor, 2-digit dividend [?](#)
- Writing a division sentence for equal groups
- Writing a division sentence for equal groups and a remainder
- Whole number division: 2-digit by 2-digit, no remainder [?](#)

Division Patterns (1 Topic)

- Division with trailing zeros: Problem type 1 [?](#)

Dividing Three- and Four-Digit Dividends (6 Topics)

- Division with regrouping: 1-digit divisor, 3-digit or 4-digit dividend [?](#)
- Quotient with remainder: 1-digit divisor, 3-digit or 4-digit dividend [?](#)
- Division involving quotients with intermediate zeros: Problem type 1 [?](#)
- Division involving quotients with intermediate zeros: Problem type 2 [?](#)
- Division with remainder involving quotients with intermediate zeros: Problem type 1 [?](#)
- Division with trailing zeros: Problem type 2 [?](#)

Dividing by Two-Digit Divisors (4 Topics)

- Whole number division: 3-digit by 2-digit, no remainder [?](#)
- Division with no remainder and a two-digit divisor: Problem type 2 [?](#)
- Division with remainder and a two-digit divisor: Problem type 1 [?](#)
- Division with remainder and a two-digit divisor: Problem type 2 [?](#)

Estimating Quotients (1 Topic)

- Estimating a quotient

Interpreting Remainders (3 Topics)

- Word problem on quotient and remainder [?](#)
- Word problem with division of whole numbers and rounding: Problem type 1 [?](#)
- Word problem with division of whole numbers and rounding: Problem type 2 [?](#)

Adding and Subtracting Decimals (26 Topics)

Decimal Place Value (3 Topics)

- Decimal place value: Tenths and hundredths [?](#)
- Writing a decimal number less than 1 given its name [?](#)
- Writing a decimal number greater than 1 given its name [?](#)

Relating Fractions and Decimals (6 Topics)

- Introduction to unit fractions
- Introduction to non-unit fractions [?](#)
- Writing a decimal and a fraction for a shaded region [?](#)
- Converting a fraction with a denominator of 10 or 100 to a decimal [?](#)
- Converting a fraction with a denominator of 100 or 1000 to a decimal [?](#)
- Converting a decimal to a proper fraction without simplifying: Basic [?](#)

Decimals on the Number Line (2 Topics)

- Reading decimal position on a number line: Tenths [?](#)
- Reading decimal position on a number line: Hundredths [?](#)

Ordering Decimals (2 Topics)

- Introduction to ordering decimals [↗](#)
- Ordering decimals [↗](#)

Adding Decimals (5 Topics)

- Addition of decimals: Vertically aligned
- Decimal addition with 2 numbers [↗](#)
- Decimal addition with 3 numbers [↗](#)
- Addition with money [↗](#)
- Word problem with addition of 3 or 4 decimals and whole numbers [↗](#)

Subtracting Decimals (6 Topics)

- Subtraction of aligned decimals [↗](#)
- Decimal subtraction: Basic [↗](#)
- Decimal subtraction: Advanced [↗](#)
- Subtraction with money [↗](#)
- Word problem with addition or subtraction of 2 decimals [↗](#)
- Word problem with subtraction of a whole number and a decimal: Regrouping with zeros [↗](#)

Estimating Sums and Differences (2 Topics)

- Rounding decimals [↗](#)
- Estimating a decimal sum or difference [↗](#)

Multiplying and Dividing Decimals (16 Topics)

Multiplying Decimals by Powers of Ten (1 Topic)

- Multiplication of a decimal by a power of ten [↗](#)

Multiplying Decimals by Whole Numbers (4 Topics)

- Multiplying a decimal less than 1 by a whole number [↗](#)
- Multiplying a decimal by a whole number [↗](#)
- Word problem with multiplication of a decimal and a whole number [↗](#)
- Word problem with multiple decimal operations: Problem type 1 [↗](#)

Multiplying Decimals (4 Topics)

- Multiplying decimals less than 1: Problem type 1 [↗](#)
- Decimal multiplication: Problem type 1 [↗](#)
- Multiplication of a decimal by a power of 0.1 [↗](#)
- Word problem with multiplication of two decimals [↗](#)

Dividing Decimals by Powers of Ten (1 Topic)

- Division of a decimal by a power of ten [↗](#)

Dividing Decimals by Whole Numbers (3 Topics)

- Division of a decimal by a whole number [↗](#)
- Word problem with division of a decimal and a whole number [↗](#)
- Word problem with multiple decimal operations: Problem type 2 [↗](#)

Dividing Decimals (3 Topics)

- Division of a decimal by a 1-digit decimal: Problem type 1 [↗](#)
- Division of a decimal by a 2-digit decimal [↗](#)
- Word problem with division of two decimals [↗](#)

Fractions (22 Topics)

Prime Numbers and Factors (4 Topics)

- Even and odd numbers [↗](#)
- Divisibility rules for 2, 5, and 10 [↗](#)
- Factors [↗](#)
- Prime numbers [↗](#)

Equivalent Fractions (10 Topics)

- Understanding equivalent fractions: Problem type 1
- Understanding equivalent fractions: Problem type 2
- Modeling and writing equivalent fractions
- Conversions involving division in fractional form and whole numbers [↗](#)
- Introduction to finding equivalent fractions: Multiplying
- Introduction to finding equivalent fractions: Dividing
- Writing a fraction with denominator 10 as a fraction with denominator 100
- Equivalent fractions [↗](#)
- Introduction to simplifying a fraction [↗](#)
- Simplifying a fraction [↗](#)

Least Common Multiple (1 Topic)

- Least common multiple of 2 numbers [↗](#)

Fractions on the Number Line (2 Topics)

- Position of fractions on a number line
- Plotting fractions using a number line

Ordering Fractions (2 Topics)

- Comparing fractions with the same denominator
- Comparing fractions by finding a common denominator

Mixed Numbers and Improper Fractions (3 Topics)

- Writing a mixed number and an improper fraction for a shaded region [↗](#)
- Writing an improper fraction as a mixed number [↗](#)
- Writing a mixed number as an improper fraction [↗](#)

Operations with Fractions (33 Topics)

Adding and Subtracting Fractions with Like Denominators (3 Topics)

- Addition or subtraction of fractions with the same denominator [↗](#)
- Addition or subtraction of fractions with the same denominator and simplification [↗](#)
- Word problem involving addition or subtraction of fractions with the same denominator [↗](#)

Adding and Subtracting Fractions with Unlike Denominators (5 Topics)

- Finding the LCD of two fractions [↗](#)
- Writing unit fractions with a common denominator to add or subtract
- Writing fractions with a common denominator to add or subtract [↗](#)
- Addition or subtraction of fractions with different denominators [↗](#)
- Word problem involving addition or subtraction of fractions with different denominators [↗](#)

Adding and Subtracting Mixed Numbers (9 Topics)

- Addition or subtraction of mixed numbers with the same denominator [↗](#)
- Addition of mixed numbers with the same denominator and renaming: Problem type 1
- Addition of mixed numbers with the same denominator and renaming: Problem type 2
- Subtraction of mixed numbers with the same denominator and renaming: Problem type 1
- Subtraction of mixed numbers with the same denominator and renaming: Problem type 2
- Addition or subtraction of mixed numbers with different denominators without renaming [↗](#)
- Addition of mixed numbers with different denominators and renaming [↗](#)
- Subtraction of mixed numbers with different denominators and renaming [↗](#)
- Word problem involving addition or subtraction of mixed numbers with different denominators [↗](#)

Multiplying Fractions by Whole Numbers (4 Topics)

- Product of a unit fraction and a whole number [↗](#)
- Product of a fraction and a whole number: Problem type 1 [↗](#)
- Product of a fraction and a whole number: Problem type 2 [↗](#)
- Word problem involving multiplying a fraction and a whole number [↗](#)

Multiplying Fractions (6 Topics)

- Introduction to fraction multiplication [↗](#)

- Fraction multiplication [↗](#)
- Modeling multiplication of proper fractions
- Area of a rectangle with fractional side lengths [↗](#)
- Word problem involving fractions and multiplication [↗](#)
- Determining if a quantity is increased or decreased when multiplied by a fraction [↗](#)

Division Involving Whole Numbers and Unit Fractions (2 Topics)

- The reciprocal of a number [↗](#)
- Division involving a whole number and a unit fraction

Multiplying and Dividing Mixed Numbers (4 Topics)

- Multiplying mixed numbers: Problem type 1
- Multiplying mixed numbers: Problem type 2
- Multiplying a mixed number and a whole number: Problem type 1
- Multiplying a mixed number and a whole number: Problem type 2

Expressions and Equations (15 Topics)

Order of Operations (3 Topics)

- Introduction to order of operations [↗](#)
- Order of operations with whole numbers [↗](#)
- Order of operations with whole numbers and grouping symbols [↗](#)

Evaluating Expressions (3 Topics)

- Evaluating an algebraic expression: Whole number addition or subtraction [↗](#)
- Evaluating an algebraic expression: Whole number multiplication or division [↗](#)
- Evaluating an algebraic expression: Whole numbers with two operations [↗](#)

Solving Addition and Subtraction Equations (1 Topic)

- Additive property of equality with whole numbers [↗](#)

Solving Multiplication and Division Equations (1 Topic)

- Introduction to solving an equation with multiplication or division [↗](#)

Patterns and Sequences (5 Topics)

- Describing an increasing or decreasing pattern from a table of values [↗](#)
- Function tables with one-step rules [↗](#)
- Finding the next terms of an arithmetic sequence with whole numbers [↗](#)
- Finding the next terms of a geometric sequence with whole numbers [↗](#)
- Finding patterns in shapes [↗](#)

Ordered Pairs (2 Topics)

- Reading a point in quadrant 1
- Plotting a point in quadrant 1

Measurement (22 Topics)

Measuring with U.S. Customary Units (2 Topics)

- Measuring length to the nearest inch
- Measuring length to the nearest quarter or half inch

Converting with U.S. Customary Units of Length (3 Topics)

- Conversion table with U.S. Customary length
- U.S. Customary length conversion with whole number values [↗](#)
- Conversions involving measurements in feet and inches [↗](#)

Converting with U.S. Customary Units of Volume and Weight (6 Topics)

- Conversion table with U.S. Customary weight
- Conversion table with U.S. Customary volume
- U.S. Customary volume conversion with whole number values [↗](#)
- U.S. Customary weight conversions with whole number values [↗](#)

- U.S. Customary unit conversion with whole number values: Two-step conversion [↗](#)
- U.S. Customary unit conversion with mixed number values: One-step conversion [↗](#)

Measuring with Metric Units (3 Topics)

- Measuring length to the nearest centimeter
- Word problem involving metric mass or volume: Addition or subtraction
- Word problem involving metric mass or volume: Multiplication or division

Converting with Metric Units of Length (3 Topics)

- Conversion table with metric distance
- Metric distance conversion with whole number values [↗](#)
- Metric distance conversion with decimal values [↗](#)

Converting with Metric Units of Volume and Mass (2 Topics)

- Conversion table with metric mass or volume
- Metric mass or volume conversion with whole number values [↗](#)

Line Plots (3 Topics)

- Interpreting a tally table [↗](#)
- Constructing a line plot
- Constructing a line plot with fractional values: Fourths

Geometry (9 Topics)

Segments, Rays, and Lines (1 Topic)

- Identifying parallel and perpendicular lines [↗](#)

Classifying and Measuring Angles (2 Topics)

- Classifying angles as smaller than right, right, larger than right
- Acute, obtuse, and right angles [↗](#)

Polygons (1 Topic)

- Naming polygons [↗](#)

Classifying Triangles (2 Topics)

- Acute, obtuse, and right triangles [↗](#)
- Classifying scalene, isosceles, and equilateral triangles by side lengths [↗](#)

Quadrilaterals (3 Topics)

- Shared attributes among categories of quadrilaterals [↗](#)
- Identifying parallelograms, rectangles, and squares [↗](#)
- Properties of quadrilaterals [↗](#)

Perimeter, Area, and Volume (12 Topics)

Perimeter (1 Topic)

- Finding the missing length in a figure [↗](#)

Area of Rectangles (2 Topics)


- Relating the area of a rectangle to multiplying its side lengths
- Word problem involving the area of a rectangle: Problem type 1

Area of Composite Figures (4 Topics)

- Finding the area of a composite figure on a grid
- Introduction to area of a piecewise rectangular figure [↗](#)
- Area of a piecewise rectangular figure [↗](#)
- Word problem on finding the area of a piecewise rectangular figure

Volume (5 Topics)

- Volume of a rectangular prism made of unit cubes [↗](#)
- Volume of a rectangular prism [↗](#)
- Writing equivalent expressions for the volume of a rectangular prism

- Volume of a piecewise rectangular prism 
- Word problem involving the volume of a piecewise rectangular prism 