

Enablemath Content

Modules

Lessons

Assignment Number

Assignment Name

Level 3

Whole Numbers

Whole Numbers

W.1.1.3 Place Value to 10 Thousand

W.1.2.3 Read, Write, Compare, & Order Numbers to 10 Thousand

W.1.3.3 Round Whole Numbers to 10 Thousand

Addition, Expanded Notation, Subtraction

W.3.1.3 Add Whole Numbers

W.3.2.3 Standard & Expanded Notation to 10,000

W.3.3.3 Subtract Whole Numbers

Multiplication, Multiplicative Properties, & Division

W.4.1.3 Multiples

W.4.2.3 Multiplication

W.4.4.3 Multiplicative Properties

Fractions

Fractions, Compare & Order

F.1.1.3 Proper Fractions

F.1.2.3 Mixed Numbers

F.1.3.3 Compare & Order Fractional Numbers

Simplify, Conversions, Equivalences

F.3.3.3 Visually Compare Fractions

Add & Subtract

F.4.1.3 Add Proper Fractions with Like Denominators

F.4.5.3 Subtract Proper Fractions with Like Denominators

Decimals

Representations

D.1.2.3 Decimals & Fractions

Operations

D.2.1.3 Add & Subtract Decimals

Estimation

D.3.1.3 Round Decimals

Measurement and Geometry

Measurement Units & Tools

M.1.1.3 Time

M.1.2.3 Unit Conversion

Plane Figures & their Attributes

M.2.1.3 Polygons

M.2.2.3 Angles

M.2.3.3 Parallel, Perpendicular, & Intersecting Lines

Perimeter, Circumference, & Area

M.3.1.3 Perimeter

Coordinate Geometry

M.5.1.3 Graphing Points

Level 4

Whole Numbers

Whole Numbers

- W.1.1.4 Place Value to 100 Million (PBS: 10,000-100 million)
- W.1.2.4 Read, Write, Compare, & Order Whole Numbers to 100 Million
- W.1.3.4 Round Whole Numbers to 100 Thousand

Number Theory

- W.2.1.4. Multiples, Squares, Primes, & Factors of Whole Numbers

Addition, Expanded Notation, Subtraction

- W.3.1.4 Add Whole Numbers
- W.3.2.4 Standard & Expanded Notation to 100 million
- W.3.3.4 Subtract Whole Numbers

Multiplication, Multiplicative Properties, & Division

- W.4.2.4 Multiplication
- W.4.5.4 Division

Fractions

Fractions, Compare & Order

- F.1.1.4: Fractional Numbers
- F.1.2.4: Improper Fractions & Mixed Numbers

Decimals

Representations

- D.1.1.4 Write Decimals
- D.1.2.4 Decimals & Fractions
- D.1.3.4 Compare Decimals

Operations

- D.2.2.4 Multiply Decimals
- D.2.3.4 Divide Decimals

Estimation

- D.3.1.4 Round Decimals

Measurement and Geometry

Measurement Units & Tools

- M.1.1.4 Time
- M.1.2.4 Unit Conversion

Plane Figures & their Attributes

- M.2.1.4 Similar & Congruent
- M.2.2.4 Right, Acute, and Obtuse Angles
- M.2.4.4 Triangles
- M.2.5.4 Quadrilaterals

Perimeter, Circumference, & Area

- M.3.1.4 Perimeter & Area
- M.3.2.4 Radius & Diameter

Solid Figures & their Attributes

- M.4.1.4 Classify Solid Figures

Coordinate Geometry

- M.5.1.4 Graphing Points
- M.5.2.4 Distance

Ratio and Proportion

Proportions

- R.2.1.4 Using Proportions to Solve Problems

Graphs, Data Sets, and Probability

Data Set

- G.2.1.4 Mode, Median, & Outliers

Level 5

Whole Numbers

Number Theory

W.2.1.5 Primes & Composites

Multiplication, Multiplicative Properties, & Division

W.4.3.5 Prime Factorization, & Greatest Common Factor

W.4.5.5 Division

W.5.1.5 Powers of Primes, Prime Factorization, & Greatest Common Factor

Fractions

Fractions, Compare & Order

F.1.3.5: Compare & Order Positive Fractional Numbers

Multiply & Divide

F.2.1.5: Fractions of Whole Numbers

F.2.5.5: Divide by Fractions

F.2.6.5: Multiply & Divide Fractions in Context

Simplify, Conversions, Equivalences

F.3.1.5: Simplify Fractions

F.3.2.5: Improper Fractions - Mixed Number Conversions

Add & Subtract

F.4.1.5: Add Fractions with Like Denominators

F.4.2.5: Find the LCD

F.4.3.5: Add Fractions with Unlike Denominators

F.4.4.5: Add Fractions & Mixed Numbers w/Like Denominators

F.4.5.5: Subtract Fractions & Mixed Numbers

F.4.6.5: Add & Subtract Fractions in Context

Decimals

Representations

D.1.1.5 Write Decimals

D.1.2.5 Decimals & Fractions

D.1.3.5 Compare Decimals

Operations

D.2.1.5 Add & Subtract Decimals

D.2.2.5 Multiply Decimals

Estimation

D.3.1.5 Round Decimals

Measurement and Geometry

Measurement Units & Tools

M.1.2.5 Unit Conversion

Plane Figures & their Attributes

M.2.2.5 Sum of Interior Angles

M.2.4.5 Triangles

M.2.5.5 Quadrilaterals

Perimeter, Circumference, & Area

M.3.1.5 Perimeter & Area

Solid Figures & their Attributes

M.4.2.5 Surface Area & Nets

M.4.5.5 Volume

Coordinate Geometry

M.5.1.5 Graphing Points

Ratio and Proportion

Percents

R.3.1.5 Percents

R.3.2.5 Percents of Whole Numbers

Percents

R.4.1.5 Converting Percents to Decimals and Fractions

Graphs, Data Sets, and Probability

Data Sets

G.2.1.5 Mean, Median, Mode, Maximum, Minimum & Range

Level 6

Whole Numbers

Addition, Expanded Notation, Subtraction

W.3.2.6 Standard & Expanded Notation to 100 billion

Multiplication, Multiplicative Properties, & Division

W.4.1.6 Multiples & Least Common Multiple

W.4.5.6 Division

Fractions

Fractions, Compare & Order

F.1.3.6 Compare & Order Fractional Numbers

Multiply & Divide

F.2.2.6 Multiply Proper Fractions

F.2.3.6 Multiply Fractions by Fractions & Mixed Numbers

F.2.4.6 Multiply Mixed Numbers by Mixed Numbers

F.2.5.6 Divide Positive Fractions

Simplify, Conversions, Equivalences

F.3.1.6 Simplify Fractions

F.3.2.6 Improper Fractions - Mixed Number Conversions

Add & Subtract

F.4.3.6 Add Fractions with Unlike Denominators

F.4.5.6 Subtract Fractions & Mixed Numbers

Decimals

Representations

D.1.3.6 Compare Decimals

Operations

D.2.2.6 Multiply Decimals

D.2.3.6 Divide Decimals

Measurement and Geometry

Plane Figures & their Attributes

M.2.2.6 Vertical, Complementary, & Supplementary Angles

M.2.4.6 Triangles

M.2.5.6 Quadrilaterals

Perimeter, Circumference, & Area

M.3.1.6 Perimeter & Area

M.3.2.6 Circumference & Area

M.3.3.6 Area of Parallelograms & Trapezoids

Solid Figures & their Attributes

M.4.1.6 Classify Solid Figures

M.4.2.6 Surface Area & Nets

M.4.5.6 Volume

Coordinate Geometry

M.5.2.6 Distance

M.5.3.6 Pythagorean Theorem

Ratio and Proportion

Ratios & Rates

R.1.1.6 Writing Ratios

R.1.2.6 Using Ratios to Express Expected Outcomes

R.1.3.6 Rates

R.1.4.6 Solving Problems Involving Rates

R.1.5.6 Constant Rates of Change

Proportions

R.2.1.6 Using Proportions to Solve Problems

Percents

R.3.2.6 Percents of Whole Numbers

Converting Percents to Decimals & Fractions

R.4.1.6 Converting Percents to Decimals and Fractions

Estimating

R.5.1.6 Estimating with Ranges

Graphs, Data Sets, and Probability

Probabilities

G.3.1.6 Interpret and Represent Probabilities

G.3.2.6 Independent and Dependent Events

6. The Real Numbers

The Real Numbers

- 6.1.1 The Real Numbers
- 6.1.2 Inequalities
- 6.1.3 Absolute Value
- 6.1.4 Additive Inverse
- 6.1.5 Multiplicative Inverse

Operations on Integers

- 6.2.1 Adding Integers
- 6.2.2 Subtracting Integers
- 6.2.3 Multiplying Integers
- 6.2.4 Dividing Integers
- 6.2.5 Powers of Integers

Operations on Rationals

- 6.3.1 Adding and Subtracting Fractions
- 6.3.2 Multiplying and Dividing Fractions
- 6.3.3 Adding and Subtracting Decimals
- 6.3.4 Multiplying and Dividing Decimals

Roots, Exponents, Irrationals

- 6.4.1 Operations on Exponents
- 6.4.2 Operations on Roots
- 6.4.3 Operations on Irrationals

Additional Assignments

- 6.5.1 Order of Operations
- 6.5.2 Translating English to Math
- 6.5.3 Word Problems
- 6.5.4 Scientific Notation
- 6.5.5 Properties of Real Numbers
- 6.5.6 Order of Operations -- Integers
- 6.5.7 Substitution -- Integers
- 6.5.8 Roots of Integers -- non-real solutions

7. Solving Linear Equations

Algebraic Expressions

- 7.1.1 Evaluating Algebraic Expressions
- 7.1.2 Combining Like Terms
- 7.1.3 Multiplying Monomials
- 7.1.4 The Distributive Property

Solving Linear Equations

- 7.2.1 Solving $x + b = c$
- 7.2.2 Solving $ax = c$
- 7.2.3 Solving $ax + b = c$
- 7.2.4 Converting to $ax + b = c$ Form

Solving Linear Equations with Rationals

- 7.3.1 Equations with Fractions
- 7.3.2 Equations with Decimals

Linear Inequalities, Absolute Value Equations & Sets

- 7.4.1 Graphing Inequalities
- 7.4.2 Solving Linear Inequalities
- 7.4.3 Absolute Value Equations & Inequalities
- 7.4.4 Sets
- 7.4.5 Union and Intersection

Additional Assignments

- 7.5.1 Solving Translated Problems

- 7.5.2 Tolerance
- 7.5.3 Compound Inequalities
- 7.5.4 Mixture
- 7.5.5 Investment
- 7.5.6 Motion
- 7.5.7 Commission

8. Graphing Linear Equations

Plotting Points

- 8.1.1 Ordered Pairs as Solutions
- 8.1.2 Plotting Ordered Pairs
- 8.1.3 Table of Values

Forms of Linear Equations & Intercepts

- 8.2.1 $y=mx+b$
- 8.2.2 x- and y-Intercepts
- 8.2.3 $Ax+By=C$ Intercepts

Slope

- 8.3.1 Calculating Slope
- 8.3.2 Parallel Lines
- 8.3.3 Perpendicular Lines

Graphing Linear Equations & Inequalities

- 8.4.1 Slope-Intercept
- 8.4.2 Point-Slope Equations
- 8.4.3 Graphing Inequalities

Additional Assignments

- 8.5.1 Rates of Change

9. Solving Systems of Equations

Graphing Systems of Linear Equations and Inequalities

- 9.1.1 Systems of Linear Equations
- 9.1.2 Systems of Linear Inequalities

Solving Systems by Graphing

- 9.2.1 Systems of Equations by Graphing
- 9.2.2 Systems of Inequalities by Graphing

Solving Systems by Substitution

- 9.3.1 Solving by Substitution

Solving Systems by Elimination

- 9.4.1 Solving by Elimination

11. Polynomials

Exponents & Monomial Operations

- 11.1.1 Rules of Exponents
- 11.1.2 Multiplying Monomials
- 11.1.3 Dividing Monomials

Adding & Subtracting Polynomials

- 11.2.1 Defining Polynomials
- 11.2.2 Evaluating Polynomials
- 11.2.3 Adding and Subtracting Polynomials

Multiplying Polynomials

- 11.3.1 Multiplying Polynomials by Monomials
- 11.3.2 Multiplying Polynomials by Polynomials

Dividing Polynomials

- 11.4.1 Dividing Polynomials by Monomials
- 11.4.2 Dividing Polynomials by Polynomials

Additional Assignments

- 11.5.1 Synthetic Division
- 11.5.2 Complicated Polynomial Evaluation

12. Factoring

Common Factors & Grouping

- 12.1.1 Greatest Common Factor
- 12.1.2 Factoring and the GCF
- 12.1.3 Factoring by Grouping

Factoring Trinomials

- 12.2.1 Factoring x^2+bx+c
- 12.2.2 Factoring ax^2+bx+c

Factoring Special Polynomials

- 12.3.1 Factoring the Difference of 2 Squares
- 12.3.2 Sums & Differences of Cubes

Solving Quadratic Equations

- 12.4.1 Solving by Factoring
- 12.4.2 Factoring Perfect Squares
- 12.4.3 Completing the Square

Additional Assignments

- 12.5.1 Factoring Completely
- 12.5.2 Finding the x-Intercepts of Parabolas

13. Rational Expressions & Equations

Multiplying & Dividing Rational Expressions

- 13.1.1 Simplifying Rational Expressions
- 13.1.2 Multiplying Rational Expressions
- 13.1.3 Dividing Rational Expressions

Adding & Subtracting Rational Expressions

- 13.2.1 Add & Sub with Like Denominators
- 13.2.2 Finding the Least Common Denominator
- 13.2.3 Add & sub with Unlike Denominators
- 13.2.4 Rational Expressions in General

Solving Rational Equations

- 13.3.1 Solving Proportions
- 13.3.2 Solving Rational Equations

Graphing Rational Equations

- 13.4.1 Introducing Asymptotes
- 13.4.2 Solving Rational Equations Graphically

Additional Assignments

- 13.5.1 Manipulating Rational Equations
- 13.5.2 Literal Equations
- 13.5.3 Similar Triangles

14. Exponents & Radicals

Simplifying Radical Expressions

- 14.1.1 Radicals and Rational Exponents
- 14.1.2 Simplifying Radical Expressions
- 14.1.3 Simplifying Expressions Involving Rational Exponents

Operations on Radical Expressions

- 14.2.1 Adding and Subtracting Radicals
- 14.2.2 Multiplying Radicals
- 14.2.3 Rationalizing Denominators
- 14.2.4 Dividing Radicals

Solving Radical Equations

- 14.3.1 Solving Radical Equations

Complex Numbers

- 14.4.1 Imaginary Numbers
- 14.4.2 Adding & Subtracting Complex Numbers
- 14.4.3 Multiplying & Dividing Complex Numbers

Additional Assignments

- 14.5.1 The Distance Formula
- 14.5.2 The Golden Rectangle
- 14.5.3 Square Roots -- Simplifying and Operations

15. Quadratic Equations

Solving Quadratic Equations

- 15.1.1 Solving by Factoring
- 15.1.2 Solving with Square Roots

Solving Quadratic Solving by Completing the Square

- 15.2.1 Factoring Perfect Squares
- 15.2.2 Completing the Square
- 15.2.3 Solving by Completing the Square

Graphing Quadratic Equations

- 15.3.1 Coefficients of Quadratic Equations
- 15.3.2 x-Intercepts
- 15.3.3 Vertex Form $y=a(x - h)^2 + k$

The Quadratic Formula

- 15.4.1 Solving with the Quadratic Formula

Additional Assignments

- 15.5.1 Baseball and Parabolic Motion
- 15.5.2 Seeing Complex Roots of Quadratics

16. Introduction to Functions

Plotting Functions

- 16.1.1. Ordered Pairs
- 16.1.2 Table of Values
- 16.1.3 Introduction to Functions
- 16.1.4 Functional Notation & Evaluation
- 16.1.5 Is it a Function?

Common Functions

- 16.2.1 Linear Functions
- 16.2.2 Quadratic Functions -- Characteristics
- 16.2.3 Quadratic Functions -- Intercepts
- 16.2.4 Identifying Common Functions

Properties of Functions

- 16.3.1 Domain and Range
- 16.3.2 Intervals
- 16.3.3 Properties of Curves
- 16.3.4 Symmetry

Algebra of Functions

- 16.4.1 $f+g, f-g, f \cdot g$
- 16.4.2 f/g
- 16.4.3 Composition of Functions

Inverse Functions

- 16.5.1 Is it One to One?
- 16.5.2 Finding the Inverse Function