

I CAN Learn® Pre-Algebra Lesson List

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UNIT 1 NUMBER OPERATIONS

- MPA-001 Identifying, Comparing, and Ordering Whole Numbers Through Billions
- MPA-002 Adding, Subtracting, Multiplying, and Dividing Whole Numbers
- MPA-013 Using Powers and Exponents in Expressions
- MPA-008 Order of Operations
- MPA-004 Using Rounding to Estimate
- MPA-005 Estimating Products and Quotients Using Patterns
- MPA-006 Determining Reasonableness of Answers and Appropriate Method of Computation
- MPA-003 Using Four-Step Plan for Problem Solving

UNIT 2 ALGEBRAIC EXPRESSIONS AND EQUATIONS

- MPA-041 Writing Simple Algebraic Expressions from Phrases
- MPA-014 Evaluating Expressions for Given Variables
- MPA-009 Solving One-Step Equations Using a Box
- MPA-010 Solving One-Step Equations of Whole Numbers Using Addition and Subtraction
- MPA-011 Solving One-Step Equations of Whole Numbers Using Multiplication and Division
- MPA-012 Solving One-Step Equations of Whole Numbers Using All Operations
- MPA-042 Solving Problems Using an Equation
- MPA-007 Solving Problems Using Logical Reasoning Skills

UNIT 3 INTEGER OPERATIONS

- MPA-043 Reading and Writing Integers
- MPA-045 Comparing and Ordering Integers
- MPA-044 Finding Opposite and Absolute Values of Integers
- MPA-046 Graphing Points on a Coordinate Plane
- MPA-047 Adding Integers with Like Signs
- MPA-048 Adding Integers with Unlike Signs
- MPA-050 Subtracting Integers with Unlike Signs
- MPA-051 Multiplying Integers with Like and Unlike Signs
- MPA-052 Dividing Integers with Like and Unlike Signs
- MPA-053 Adding, Subtracting, Multiplying, and Dividing Integers
- MPA-117 Modeling Algebraic Expressions and Equations Using Cups and Counters
- MPA-054 Solving One-Step Equations with Integers Using all Four Operations

UNIT 4 SOLVING MULTI-STEP EQUATIONS

- MPA-100 Solving Two-Step Equations with Positive Coefficients
- MPA-165 Solving Two-Step Equations with Negative Coefficients
- MPA-101 Solving Two-Step Equations by Combining Like Terms
- MPA-170 Solving Equations Using the Distributive Property
- MPA-175 Solving Equations with Variables on Both Sides
- MPA-109 Solving and Graphing Linear Inequalities on a Number Line
- MPA-125 Formulating a Possible Problem Situation Given an Equation
- MPA-118 Modeling Algebraic Expressions and Equations Using Algebra Tiles

UNIT 5 DECIMALS

- MPA-015 Identifying the Place Value of Decimals Through Thousandths
- MPA-016 Comparing and Ordering Decimals
- MPA-017 Rounding Decimals and Estimating Computations Using Decimals
- MPA-018 Adding and Subtracting Decimals
- MPA-122 Modeling Multiplication and Division of Decimals
- MPA-019 Multiplying Decimals
- MPA-020 Multiplying Decimals by Powers of Ten
- MPA-119 Dividing Decimals
- MPA-023 Rounding Quotients Involving Decimals
- MPA-040 Solving One-Step Equations with Decimals Using All Four Operations
- MPA-021 Converting Between Standard and Scientific Notation

UNIT 6 NUMBER SENSE

- MPA-024 Using Divisibility Rules
- MPA-025 Identifying Prime and Composite Numbers

UNIT 6 CONTINUED

- MPA-026 Using Prime Factorization
- MPA-027 Finding the Greatest Common Factor
- MPA-030 Finding Least Common Multiple of Two or More Numbers
- MPA-116 Solving Real-Life Problems by Using Guess-and-Check and Working Backwards

UNIT 7 FRACTIONS

- MPA-028 Reducing Fractions to Lowest Terms/Simplest Form
- MPA-029 Converting Fractions and Decimals
- MPA-031 Comparing and Ordering Fractions and Decimals
- MPA-032 Converting Improper Fractions and Mixed Numbers
- MPA-034 Adding and Subtracting Fractions
- MPA-035 Adding and Subtracting Mixed Numbers with Unlike Denominators
- MPA-123 Modeling Multiplication and Division of Fractions
- MPA-036 Multiplying Fractions and Mixed Numbers and Simplifying
- MPA-037 Dividing Fractions and Mixed Numbers and Simplifying
- MPA-033 Estimating Computations with Fractions and Mixed Numbers
- MPA-038 Solving One-Step Equations with Fractions Using Addition and Subtraction
- MPA-039 Solving One-Step Equations with Fractions Using Multiplication and Division

UNIT 8 RATIO AND PROPORTIONS

- MPA-078 Expressing Ratios as Fractions and Determining Equivalency
- MPA-079 Unit rates
- MPA-080 Solving Proportions
- MPA-110 Solving Problems Using Proportions, Scale Drawings, Models, and Maps

UNIT 9 PERCENTS

- MPA-081 Converting Fractions, Decimals, and Percents I
- MPA-082 Converting Fractions, Decimals, and Percents II
- MPA-083 Finding Number Given Percent and Total
- MPA-084 Finding Percent Given Number and Total
- MPA-085 Finding Total Given Number and Percent
- MPA-086 Solving Problems Using Percent
- MPA-087 Finding Percent Increase and Decrease
- MPA-126 Solving Real-World Problems Involving Sales Tax
- MPA-127 Solving Real-World Problems Involving Discounts, Markups, and Commission
- MPA-128 Solving Real-World Problems Involving Simple and Compound Interest
- MPA-088 Solving Real-World Problems Involving Percent

UNIT 10 REAL NUMBERS

- MPA-064 Finding Square Roots
- MPA-065 Estimating Square Roots
- MPA-066 Solving Problems Using the Pythagorean Theorem
- MPA-124 Classifying Numbers in the Real Number System

UNIT 11 MEASUREMENT

- MPA-130 Developing a Sense of Relative Sizes of Measures
- MPA-133 Distinguishing Between Exact and Approximate Answers
- MPA-062 Converting Units in Customary System
- MPA-061 Converting Metric Units of Length, Capacity, and Mass
- MPA-063 Converting Units Between Metric and Customary System
- MPA-155 Comparing and Converting Rates
- MPA-134 Calculating With Precision, Accuracy, and Significant Digits

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JRL Enterprises, Inc.
1820 St. Charles Avenue, Ste. 203
New Orleans, LA 70130
(888) 263-1390

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UNIT 12 BASIC GEOMETRY

- MPA-056 Classifying Angles
- MPA-057 Identifying and Applying Supplementary and Complementary Angles
- MPA-105 Determining the Measure of Angles Made by Parallel Lines and a Transversal
- MPA-058 Identifying Polygons
- MPA-059 Properties of Triangles and Quadrilaterals
- MPA-121 Identifying Similar and Congruent Polygons Using Proportions
- MPA-060 Determining Which Figures Tessellate

UNIT 13 TWO-DIMENSIONAL GEOMETRY

- MPA-055 Finding the Perimeter of a Figure
- MPA-067 Finding the Area of Rectangles and Parallelograms
- MPA-069 Finding the Area of Triangles and Trapezoids
- MPA-070 Finding the Circumference of a Circle
- MPA-071 Finding the Area of a Circle
- MPA-068 Finding the Area of Irregular Figures
- MPA-160 Plotting Polygons and Finding the Area

UNIT 14 THREE-DIMENSIONAL GEOMETRY

- MPA-072 Identifying 3-D Figures
- MPA-106 Identifying a Solid Figure From a Net
- MPA-107 Constructing Three-Dimensional Figures and Examining Their Dimensions
- MPA-073 Finding the Surface Area of Rectangular Prisms
- MPA-074 Finding the Surface Area of Cylinders
- MPA-075 Finding the Volume of Rectangular Prisms
- MPA-076 Finding the Volume of Cylinders
- MPA-077 Solving Problems Using a Formula
- MPA-115 Finding the Volumes of Prisms, Cylinders, Pyramids, and Cones Using Models
- MPA-111 Comparing Perimeters, Areas, and Volumes of Similar Geometric Figures and Solids

UNIT 15 GRAPHING LINEAR EQUATIONS

- MPA-102 Graphing Equations by Plotting Points
- MPA-103 Distinguishing Between Relations and Functions
- MPA-135 Determining the Slope of a Line
- MPA-140 Examining Linear Equations in Slope-Intercept Form
- MPA-142 Solving Problems With Linear Functions and Direct Variation
- MPA-150 Identifying and Graphing Linear and Nonlinear Functions
- MPA-104 Recognizing Patterns
- MPA-270 Generating Algebraic Expressions from Patterns of Models
- MPA-108 Graphing Translations and Reflections on the Coordinate Plane
- MPA-120 Applying Dilations in the Coordinate Plane
- MPA-180 Examining Line and Rotational Symmetry

UNIT 16 PROBABILITY

- MPA-089 Using Tree Diagrams
- MPA-091 Finding the Number of Combinations of a Set of Objects
- MPA-090 Finding the Probability of Simple Real-Life Events
- MPA-112 Constructing Sample Spaces for Compound Events (Dependent and Independent)
- MPA-113 Finding the Probability of Compound Events Through Experimentation
- MPA-114 Finding the Odds of Events and Experimental Probability from a Math Model

UNIT 17 STATISTICS

- MPA-092 Reading and Interpreting Bar, Line, and Circle Graphs
- MPA-095 Find the Mean, Median, and Mode
- MPA-129 Choosing Appropriate Scales and Intervals for Data
- MPA-094 Interpreting and Constructing Line Plots
- MPA-096 Constructing Stem-and-Leaf Plots
- MPA-097 Constructing Box-and-Whisker Plots
- MPA-131 Interpreting and Creating Histograms
- MPA-132 Interpreting and Creating Scatterplots
- MPA-098 Making Predictions from Graphs and Choosing the Correct Graph
- MPA-099 Recognizing Misleading Statistics and Graphs
- MPA-840 Interpreting Data



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