



The Correlation of PLATO® Curricula to West Virginia Content Standards and Objectives Mathematics

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Introduction

PLATO Learning Inc. combines PLATO computer-assisted instruction into a flexible integrated learning system to enhance instructional effectiveness in education programs. This document identifies PLATO instructional activities that correlate to the West Virginia Content Standards and Objectives, Mathematics. URL: <http://wvde.state.wv.us/csos/>.

It is recommended that instructors review the correlation in order to fine-tune the activity to fit their educational environment. Modules may be added or removed; Web sites and offline activities may also be incorporated to enhance the learning path.

The following PLATO courseware was used in this correlation report:

PLATO® Achieve Now Adventures -- Mathematics

PLATO® Algebra 1, Part 1

PLATO® Algebra 1, Part 2

PLATO® Algebra 2, Part 1

PLATO® Algebra 2, Part 2

PLATO® Applied Mathematics

PLATO® Data Skills

PLATO® Foundational Mathematics

PLATO® Geometry and Measurement 1

PLATO® Geometry and Measurement 2

PLATO® Math Expeditions F

PLATO® Math Expeditions G

PLATO® Math Expeditions H

PLATO® Math Expeditions I

PLATO® Math Problem Solving

PLATO Learning, Inc. looks forward to supporting your initiatives in providing successful educational programs using PLATO® computer-based lessons.

Inspired solutions for teaching and learning™



Grade 06

Standard I: Number and Operations

M.O.6.I.1 demonstrate an understanding of large numbers by converting and comparing numbers in scientific notation and standard notation (with and without technology).

PLATO® Math Expeditions F

Numeration F - Place Value

Identify place value to millions

PLATO® Math Expeditions G

Numeration G - Place Value

Identify place value to billions

Recognize place value in decimals

PLATO® Math Expeditions H

Numeration H - Place Value

Identify place value to billions

Recognize place value in decimals

PLATO® Math Expeditions I

Numeration I - Compare

Compare rational numbers

Numeration I - Order

Order rational numbers

Numeration I - Place Value

Identify place value to billions

Recognize place value in decimals

Write in scientific notation

PLATO® Achieve Now Adventures -- Mathematics

Timeless Math 1—Maya, Search and Rescue; Navigation Room: Rope Climb (Level 1)

Timeless Math 1—Maya, Search and Rescue; Navigation Room: Rope Climb (Levels 2-4)

Timeless Math 2—Maya, Observatory; Navigation Room: Cenote (Levels 2-4)

Timeless Math 7—Rover Recovery; Tracking (Level 3)

PLATO® Foundational Mathematics

Understanding Whole Numbers 2

Reading and Writing Numbers in Word Form

Representing Millions and Billions

Understanding Decimals

Understanding Decimal Place Value: Thousandths and Ten-Thousandths



M.O.6.1.2 determine the greatest common factor and least common multiple using multiple strategies to solve real-world problems; find prime factorization of a number.

PLATO® Math Expeditions F

- Fractions F - Fractions
 - Add & subtract different fractions
 - Add mixed numbers
 - Subtract mixed numbers

PLATO® Algebra I, Part I

- Basic Number Ideas (Alg I.1)
 - Prime and Composite Numbers (Alg I.1)
 - Multiplying Common Fractions (Alg I.1)
 - Adding and Subtracting Fractions (Alg I.1)

PLATO® Achieve Now Adventures -- Mathematics

- P.K.'s Place 2—Hoop at Sea!; The Hoopo Hop (Levels 1-3)
- Timeless Math 7—Rover Recovery; Search (Level 1)
- Timeless Math 7—Rover Recovery; Search (Level 2)
- Timeless Math 7—Rover Recovery; Search (Level 3)

PLATO® Foundational Mathematics

- Dividing Whole Numbers
 - Finding Common Multiples and the Least Common Multiple
- Understanding Fractions
 - Working with Common Denominators and the Least Common Denominator

M.O.6.1.3 compare and order integers using multiple strategies (e.g., symbols, manipulatives, number line).

PLATO® Math Expeditions F

- Numeration F - Compare
 - Compare numbers to 999,999
- Decimals F - Decimals
 - Compare, order & round decimals

PLATO® Math Expeditions I

- Numeration I - Compare
 - Compare rational numbers
- Numeration I - Order
 - Order rational numbers

PLATO® Algebra I, Part I

- Basic Number Ideas (Alg I.1)
 - The Additive Inverse of Integers (Alg I.1)
- Graphing Basics (Alg I.1)
 - Coordinate Plane (Alg I.1)

PLATO® Achieve Now Adventures -- Mathematics

- Math Gallery—Collection I; Explore: Base-10 Blocks (Level 0)

Inspired solutions for teaching and learning™



- Math Gallery—Collection 1; Explore: Geoboard (Level 0)**
 - Math Gallery—Collection 1; Explore: Fraction Strips (Level 0)**
 - Math Gallery—Collection 1; Explore: Calculator (Level 0)**
 - Math Gallery—Collection 1; Series 30: Base-10 Blocks (Levels 1-3)**
 - Math Gallery—Collection 1; Series 30: Calculator (Level 1)**
 - Math Gallery—Collection 1; Series 30: Calculator (Level 2)**
 - Math Gallery—Collection 1; Series 30: Calculator (Level 3)**
 - Math Gallery—Collection 1; Series 30: Fraction Strips (Level 1)**
 - Math Gallery—Collection 1; Series 30: Fraction Strips (Level 2)**
 - Math Gallery—Collection 1; Series 30: Fraction Strips (Level 3)**
 - Math Gallery—Collection 1; Series 30: Geoboard (Levels 1 & 3)**
 - Math Gallery—Collection 1; Series 30: Geoboard (Level 2)**
 - Math Gallery—Collection 2; Explore: Time (Level 0)**
 - Math Gallery—Collection 2; Explore: Ratio (Level 0)**
 - Math Gallery—Collection 2; Explore: Probability (Level 0)**
 - Math Gallery—Collection 2; Explore: Money (Level 0)**
 - Math Gallery—Collection 2; Series 20: Money (Level 2)**
 - Math Gallery—Collection 2; Series 30: Time (Levels 1-3)**
 - Math Gallery—Collection 2; Series 30: Ratio (Levels 1-3)**
 - Math Gallery—Collection 2; Series 30: Probability (Levels 1-3)**
 - The Quaddle Family Mysteries 3/The Case of the Scarce Scarab—Parlor and Family Room; Parlor: Toy Chest (Levels 1-3)**
 - Timeless Jade Trade; Equivalence Tool (Levels 1-3)**
 - Timeless Math 1—Maya, Search and Rescue; Navigation Room: Rope Climb (Level 1)**
 - Timeless Math 1—Maya, Search and Rescue; Navigation Room: Rope Climb (Levels 2-4)**
 - Timeless Math 1—Maya, Search and Rescue; Navigation Room: Rope Climb (Level 5)**
 - Timeless Math 1—Maya, Search and Rescue; Strategy Room, Tool Set: Fraction Equivalence Tool (Level 0)**
 - Timeless Math 2—Maya, Observatory; Navigation Room: Cenote (Level 1)**
 - Timeless Math 2—Maya, Observatory; Navigation Room: Cenote (Levels 2-4)**
 - Timeless Math 4—Lunar Base; Tools: Chip Tool (Level 0)**
- PLATO® Foundational Mathematics**
Understanding Whole Numbers I

Inspired solutions for teaching and learning™



**Greater Than, Less Than, Equal To
Comparing Whole Numbers: 10 through 99**

M.O.6.1.4 analyze and solve real-world problems involving addition, subtraction, multiplication and division of • whole numbers, • fractions, mixed numbers, • decimals, • integers, and justify the reasonableness by estimation.

PLATO® Math Problem Solving

Math Fundamentals

Math Problem Solving: Building a Highway

Math Problem Solving: Smart Shopping

Math Problem Solving: Car Costs

Math Problem Solving: Running a Business

PLATO® Math Expeditions F

Number Operations F - Division

Divide 2-digit by 1-digit with remainders

Divide 3-digit by 1 digit with remainders A

Divide 3-digit by 1-digit with remainders B

Divide 3-digit and 4-digit by 1-digit with 0

Decimals F - Decimals

Add & subtract decimals

PLATO® Math Expeditions G

Number Operations G - Division

Divide up to 5-digits by 1-digit numbers

Divide 3, 4, or 5-digits by 1-digit numbers

Decimals G - Decimals

Add and subtract decimals

PLATO® Math Expeditions H

Number Operations H - Subtraction

Subtract decimals

Decimals H - Decimals

Add & subtract decimals

PLATO® Math Expeditions I

Number Operations I - Subtraction

Subtract decimals

Decimals I - Decimals

Add & subtract decimals

PLATO® Algebra I, Part I

Basic Number Ideas (Alg 1.1)

Using Basic Number Ideas (Alg 1.1)

Special Topics (Alg 1.1)

Estimation Basics (Alg 1.1)

PLATO® Achieve Now Adventures -- Mathematics

Math Gallery—Collection 1; Series 30: Base-10 Blocks (Levels 1-3)



Math Gallery—Collection 1; Series 30: Calculator (Level 1)

Math Gallery—Collection 1; Series 30: Calculator (Level 2)

Math Gallery—Collection 1; Series 30: Calculator (Level 3)

P.K.'s Place 2—Hoop at Sea!; P.K.'s Fast Facts (Practice)

P.K.'s Place 2—Hoop at Sea!; P.K.'s Fast Facts (Levels 1-3)

P.K.'s Place 2—Hoop at Sea!; P.K.'s Sonar Scan (Level 1)

P.K.'s Place 2—Hoop at Sea!; P.K.'s Sonar Scan (Level 2)

P.K.'s Place 2—Hoop at Sea!; P.K.'s Sonar Scan (Level 3)

The Quaddle Family Mysteries 1/The Case of the Scarce Scarab—Lobby and Kitchen; Kitchen: Cookbook (Level 1)

The Quaddle Family Mysteries 3/The Case of the Scarce Scarab—Parlor and Family Room; Parlor: Road Rally, U.S.A. (Levels 1-3)

Timeless Math 4—Lunar Base; Control Center: Laser Access (Level 0)

PLATO® Foundational Mathematics

Course: Adding and Subtracting Whole Numbers 2: Module: Solving Addition and Subtraction Story Problems

Multiplying Whole Numbers

Solving Multiplication Story Problems

Dividing Whole Numbers

Writing a Quotient as a Mixed Number

Solving Division Story Problems

Multiplying and Dividing Fractions

Solving Fraction Story Problems

Performing Operations with Decimals

Adding and Subtracting Decimals

Solving Decimal Story Problems

M.O.6.1.5 apply the distributive, commutative, associative and identity properties to numeric expressions and use to prove equivalency.

PLATO® Math Expeditions G

Number Operations G - Subtraction

Subtract numbers with zeros

PLATO® Achieve Now Adventures -- Mathematics

Math on the Move! 2—Multiplication/Division: Advanced; Addition Method of Multiplication (Level 0)

P.K.'s Place 2—Hoop at Sea!; P.K.'s Sonar Scan (Level 1)

P.K.'s Place 2—Hoop at Sea!; P.K.'s Sonar Scan (Level 2)

P.K.'s Place 2—Hoop at Sea!; P.K.'s Sonar Scan (Level 3)

PLATO® Foundational Mathematics

Understanding Addition and Subtraction 2

Inspired solutions for teaching and learning™



Using the Identity Property of Addition
Using the Commutative Property of Addition
Using the Associative Property of Addition

Understanding Multiplication

Using the Identity Property of Multiplication
Using the Commutative Property of Multiplication
Using the Associative Property of Multiplication
Using the Distributive Property of Multiplication over Addition

M.O.6.I.6 convert between fractions/ratios, mixed numbers, decimals and percents in appropriate real-world problems.

PLATO® Applied Mathematics

Applied Math
Math Conversions

PLATO® Math Expeditions F

Fractions F - Fractions
Add & subtract same fractions
Add & subtract different fractions
Add mixed numbers
Subtract mixed numbers
Multiply fractions & mixed numbers

Ratio/Proportion F - Ratio/Proportion

Decimals & fractions as %
Write ratios

PLATO® Math Expeditions G

Decimals G - Decimals
Add and subtract decimals

Ratio/Proportion G - Ratio/Proportion

Decimals & fractions as %

PLATO® Math Expeditions H

Decimals H - Decimals
Add & subtract decimals

Ratio/Proportion/% H - Ratio/Proportion/%

Decimals & fractions as %

PLATO® Math Expeditions I

Fractions I - Fractions
Compare & order fractions

Decimals I - Decimals

Add & subtract decimals

Ratio/Proportion/% I - Ratio/Proportion/%

Decimals & fractions as %

PLATO® Algebra I, Part I

Basic Number Ideas (Alg I.1)
Multiplying Common Fractions (Alg I.1)
Adding and Subtracting Fractions (Alg I.1)

Inspired solutions for teaching and learning™



Adding and Subtracting Mixed Numbers (Alg 1.1)
Mental Math with Fractions and Percents (Alg 1.1)

Special Topics (Alg 1.1)

Converting Percents Less than 1% to Decimals (Alg 1.1)
Converting a Decimal to a Fraction of a Percent (Alg 1.1)
Finding the Amount with Percents Less than 1% (Alg 1.1)
Converting Percents Greater than 100% to Decimals (Alg 1.1)
Converting a Number Greater than 1 to a Percent (Alg 1.1)

PLATO® Achieve Now Adventures -- Mathematics

Math Gallery—Collection 1; Series 30: Base-10 Blocks (Levels 1-3)

Math Gallery—Collection 1; Series 30: Fraction Strips (Level 1)

Math Gallery—Collection 1; Series 30: Fraction Strips (Level 2)

Math Gallery—Collection 1; Series 30: Fraction Strips (Level 3)

Math Gallery—Collection 2; Series 30: Ratio (Levels 1-3)

Timeless Jade Trade; Equivalence Tool (Levels 1-3)

Timeless Math 1—Maya, Search and Rescue; Strategy Room, Tool Set: Fraction Equivalence Tool (Level 0)

Timeless Math 2—Maya, Observatory; Navigation Room: Cenote (Level 1)

Timeless Math 2—Maya, Observatory; Navigation Room: Cenote (Levels 2-4)

Timeless Math 3—Maya, King Jaguar's Village; Mayor

Timeless Math 3—Maya, King Jaguar's Village; Trader (Levels 1-3)

Timeless Math 3—Maya, King Jaguar's Village; Strategy Room, General Tool Set: Trading Game (Level 0)

PLATO® Foundational Mathematics

Understanding Fractions

Renaming Improper Fractions as Whole or Mixed Numbers
Finding Equivalent Fractions
Simplifying Fractions
Renaming Mixed Numbers as Improper Fractions

Adding and Subtracting Fractions

Adding Mixed Numbers
Subtracting Mixed Numbers: Like Denominators

Understanding Decimals

Understanding Decimals: Tenths
Relating Decimals, Fractions, and Mixed Numbers

Performing Operations with Decimals

Renaming a Fraction as a Decimal

Working with Percent

Understanding Percent
Relating Fractions, Decimals, and Percents



**Understanding Ratio and Proportion
Equivalent Ratios**

M.O.6.I.7 compute the percent of a number to solve application problems and justify the reasonableness by estimation.

PLATO® Math Problem Solving

Math Fundamentals

Math Problem Solving: Car Costs

Math Problem Solving: Running a Business

PLATO® Applied Mathematics

Applied Math

Math Conversions

Using Base, Rate, and Proportion

PLATO® Math Expeditions G

Ratio/Proportion G - Ratio/Proportion

Find percents

Solve percents

PLATO® Math Expeditions H

Ratio/Proportion/% H - Ratio/Proportion/%

Find percents

Solve percents

Find numbers from percents

PLATO® Math Expeditions I

Ratio/Proportion/% I - Ratio/Proportion/%

Find percents

Solve percents

Find numbers from percents

PLATO® Algebra I, Part I

Basic Number Ideas (Alg I.1)

Using Basic Number Ideas (Alg I.1)

Mental Math with Fractions and Percents (Alg I.1)

Special Topics (Alg I.1)

Finding the Amount with Percents Less than 1% (Alg I.1)

Solving Problems with Percents (Alg I.1)

Estimation Basics (Alg I.1)

PLATO® Achieve Now Adventures -- Mathematics

Timeless Math 3—Maya, King Jaguar's Village; Builder (Levels 1-3)

Timeless Math 3—Maya, King Jaguar's Village; Farmer (Levels 1-3)

Timeless Math 3—Maya, King Jaguar's Village; Mayor

Timeless Math 3—Maya, King Jaguar's Village; Trader (Levels 1-3)

PLATO® Foundational Mathematics

Working with Percent

Finding a Percent of a Whole Number

Finding a Percent of a Decimal Number



**Understanding Ratio and Proportion
Solving Ratio, Proportion, and Percent Story Problems**

M.O.6.1.8 demonstrate an understanding of the effect of multiplying and dividing, whole numbers, fractions and decimals by numbers including 0, 1 and values between 0 and 1 .

**PLATO® Math Expeditions F
Fractions F - Fractions
Multiply fractions & mixed numbers**

**PLATO® Math Expeditions G
Number Operations G - Subtraction
Subtract numbers with zeros**

**Fractions G - Fractions
Multiply fractions & mixed numbers
Divide fractions**

**PLATO® Math Expeditions H
Fractions H - Fractions
Multiply fractions & mixed numbers
Divide fractions**

**PLATO® Math Expeditions I
Fractions I - Fractions
Multiply fractions & mixed numbers
Divide fractions**

**PLATO® Algebra I, Part I
Basic Number Ideas (Alg 1.1)
Multiplying Common Fractions (Alg 1.1)
Dividing Fractions (Alg 1.1)
Multiplying and Dividing Mixed Numbers (Alg 1.1)**

**PLATO® Achieve Now Adventures -- Mathematics
P.K.'s Place 2—Hoop at Sea!; P.K.'s Sonar Scan (Level 1)
P.K.'s Place 2—Hoop at Sea!; P.K.'s Sonar Scan (Level 2)
P.K.'s Place 2—Hoop at Sea!; P.K.'s Sonar Scan (Level 3)
Timeless Math 4—Lunar Base; Robot Repair Center (Level 1)
Timeless Math 4—Lunar Base; Robot Repair Center (Level 2)
Timeless Math 4—Lunar Base; Robot Repair Center (Levels 3-4)
Timeless Math 4—Lunar Base; Robot Repair Center (Level 5)
Timeless Math 4—Lunar Base; Tools: Fraction Multiplication Tool (Level 0)
Timeless Math 4—Lunar Base; Tools: Decimal/Fraction Calculator (Level 0)**

**PLATO® Foundational Mathematics
Understanding Addition and Subtraction 2
Using the Identity Property of Addition**

Inspired solutions for teaching and learning™



Understanding Multiplication
Using the Identity Property of Multiplication

Multiplying and Dividing Fractions
Multiplying Two Fractions
Multiplying Whole Numbers and Mixed Numbers
Dividing a Fraction by a Fraction

M.O.6.1.9 develop and test hypotheses to derive the rules for addition, subtraction, multiplication and division of integers, justify by using real world examples and use them to solve problems.

PLATO® Algebra I, Part I
Basic Number Ideas (Alg 1.1)
The Additive Inverse of Integers (Alg 1.1)
Adding Integers (Alg 1.1)
Subtracting Integers (Alg 1.1)
Multiplying Integers (Alg 1.1)
Dividing Integers (Alg 1.1)

PLATO® Achieve Now Adventures -- Mathematics
Timeless Math 4—Lunar Base; Energy Room (Level 1)
Timeless Math 4—Lunar Base; Energy Room (Level 2)
Timeless Math 4—Lunar Base; Energy Room (Level 3)
Timeless Math 4—Lunar Base; Energy Room (Levels 4-5)
Timeless Math 4—Lunar Base; Robot Repair Center (Level 1)
Timeless Math 4—Lunar Base; Robot Repair Center (Level 2)
Timeless Math 4—Lunar Base; Robot Repair Center (Levels 3-4)
Timeless Math 4—Lunar Base; Robot Repair Center (Level 5)
Timeless Math 4—Lunar Base; Security Deck (Levels 1-5)
Timeless Math 4—Lunar Base; Tools: Chip Tool (Level 0)

Standard 2: Algebra

M.O.6.2.1 simplify numerical expressions and evaluate algebraic expressions using order of operations.

PLATO® Algebra I, Part I
Math Sentences (Alg 1.1)
Order of Operations (Alg 1.1)
Expressions in 1 Variable (Alg 1.1)
Expressions in 2 or More Variables (Alg 1.1)
Determining the Truth Value of a Statement (Alg 1.1)
Adding Monomials (Alg 1.1)
Subtracting Monomials (Alg 1.1)
Adding Binomials and Monomials (Alg 1.1)
Subtracting Binomials and Monomials (Alg 1.1)



PLATO® Achieve Now Adventures -- Mathematics
Math Gallery—Collection 1; Series 30: Calculator (Level 1)
Math Gallery—Collection 1; Series 30: Calculator (Level 2)
Math Gallery—Collection 1; Series 30: Calculator (Level 3)
Timeless Math 7—Rover Recovery; Radar (Level 2)
Timeless Math 7—Rover Recovery; Radar (Level 3)
Timeless Math 7—Rover Recovery; Tracking (Level 2)

M.O.6.2.2 use inductive reasoning to extend patterns to predict the nth term (e.g., powers and triangular numbers).

PLATO® Algebra I, Part I
Introduction to Functions (Alg 1.1)
Patterns and Sequences (Alg 1.1)

PLATO® Achieve Now Adventures -- Mathematics
Timeless Math 1—Maya, Search and Rescue; Navigation Room: Jewel Pick (Levels 1-3)

M.O.6.2.3 create algebraic expressions that correspond to real-world situations; use the expressions to solve problems.

PLATO® Math Expeditions H
Ratio/Proportion/% H - Ratio/Proportion/%
Find numbers from percents

PLATO® Math Expeditions I
Ratio/Proportion/% I - Ratio/Proportion/%

PLATO® Algebra I, Part I
Basic Number Ideas (Alg 1.1)
Using Basic Number Ideas (Alg 1.1)

Math Sentences (Alg 1.1)
Expressions in 1 Variable (Alg 1.1)
Expressions in 2 or More Variables (Alg 1.1)
Using Linear Equations to Solve Problems (Alg 1.1)

PLATO® Achieve Now Adventures -- Mathematics
Math Gallery—Collection 1; Series 30: Calculator (Level 3)
Timeless Math 7—Rover Recovery; Radar (Level 2)
Timeless Math 7—Rover Recovery; Radar (Level 3)
Timeless Math 7—Rover Recovery; Tracking (Level 2)

M.O.6.2.4 determine the rule, output or input; given an input/output model using one operation, write an algebraic expression for the rule and use to identify other input/output values.

PLATO® Algebra I, Part I
Math Sentences (Alg 1.1)
Expressions in 1 Variable (Alg 1.1)



Expressions in 2 or More Variables (Alg 1.1)
Using Linear Equations to Solve Problems (Alg 1.1)

Introduction to Functions (Alg 1.1)
Functions (Alg 1.1)
Describing Functions with Equations, Tables, and Graphs (Alg 1.1)

M.O.6.2.5 solve real-world proportion problems involving rates, probability and measurements using multiple strategies, justify selection of strategies.

PLATO® Math Problem Solving

Math Fundamentals
Math Problem Solving: Building a Highway
Math Problem Solving: Smart Shopping
Math Problem Solving: Car Costs
Math Problem Solving: Running a Business

PLATO® Math Expeditions G

Ratio/Proportion G - Ratio/Proportion
Solve rates & proportions

PLATO® Math Expeditions H

Ratio/Proportion/% H - Ratio/Proportion/%
Probability/Stats H - Probability/Stats
Find the probability & outcomes

PLATO® Math Expeditions I

Ratio/Proportion/% I - Ratio/Proportion/%
Solve rates & proportions
Probability/Stats I - Probability/Stats
Find probability & outcomes

PLATO® Algebra 1, Part 1

Basic Number Ideas (Alg 1.1)
Using Basic Number Ideas (Alg 1.1)

Special Topics (Alg 1.1)
Scaling and Proportion, Part 2 (Alg. 1.1)

PLATO® Achieve Now Adventures -- Mathematics

Math Gallery—Collection 2; Series 30: Ratio (Levels 1-3)

Math Gallery—Collection 2; Series 30: Probability (Levels 1-3)

Timeless Math 3—Maya, King Jaguar's Village; Trader (Levels 1-3)

Timeless Math 3—Maya, King Jaguar's Village; Strategy Room, General Tool Set: Trading Game (Level 0)

Timeless Math 6—Brainswarm; Random Radar (Levels 1-3)

PLATO® Foundational Mathematics

Understanding Ratio and Proportion
Solving Proportions
Solving Ratio, Proportion, and Percent Story Problems

Inspired solutions for teaching and learning™



M.O.6.2.6 write and solve one-step equations using number sense, properties of operations and the idea of maintaining equality to represent and solve real-world problems.

PLATO® Math Expeditions H
Ratio/Proportion/% H - Ratio/Proportion/%
Find numbers from percents

PLATO® Math Expeditions I
Ratio/Proportion/% I - Ratio/Proportion/%

PLATO® Algebra I, Part I
Basic Number Ideas (Alg 1.1)
Using Basic Number Ideas (Alg 1.1)

Math Sentences (Alg 1.1)
Expressions in 1 Variable (Alg 1.1)
Expressions in 2 or More Variables (Alg 1.1)
Linear Equations in 1 Variable: Solving by Inspection (Alg 1.1)
Linear Equations in 1 Variable: Isolating the Variable (Alg 1.1)
Using Linear Equations to Solve Problems (Alg 1.1)

Equations and Formulas (Alg 1.1)
Literal Equations (Alg 1.1)

Introduction to Functions (Alg 1.1)
Interpreting Graphs to Solve Problems (Alg 1.1)

PLATO® Achieve Now Adventures -- Mathematics
Timeless Math 7—Rover Recovery; Radar (Level 2)
Timeless Math 7—Rover Recovery; Radar (Level 3)

Standard 3: Geometry

M.O.6.3.1 analyze characteristics using defining properties of • lines, • angles, • polygons, • triangles, and compare these geometric figures.

PLATO® Math Expeditions F
Geometry F - Geometry
Classify points, lines & angles
Identify geometric shapes
Measure angles

PLATO® Math Expeditions G
Geometry G - Geometry
Classify points, lines & angles
Identify geometric shapes
Measure angles

PLATO® Math Expeditions H
Geometry H - Geometry
Classify points, lines & angles
Identify geometric shapes
Measure angles



PLATO® Math Expeditions I

Geometry I - Geometry
Classify points, lines & angles
Identify geometric shapes
Measure angles

PLATO® Achieve Now Adventures -- Mathematics

P.K.'s Place 4—Daphne and the Seventh Wonder!; Geoglyphics (Level 1)
P.K.'s Place 4—Daphne and the Seventh Wonder!; Geoglyphics (Level 2)
P.K.'s Place 4—Daphne and the Seventh Wonder!; Gizametry (Level 1)
P.K.'s Place 4—Daphne and the Seventh Wonder!; P.K.'s Paths (Levels 1-2)
P.K.'s Place 4—Daphne and the Seventh Wonder!; P.K.'s Paths (Level 3)
Timeless Math 5—Space Flight Rescue; Ignition System (Level 1)
Timeless Math 5—Space Flight Rescue; Ignition System (Level 2)
Timeless Math 5—Space Flight Rescue; Ignition System (Level 3)

PLATO® Foundational Mathematics

Plane and Solid Figures
Lines, Parts of Lines, and Angles
Lines in a Plane
Introduction to Triangles

M.O.6.3.2 use inductive reasoning with the measures of interior angles in polygons and derive the formula to determine the sum of the measures of the interior angles.

PLATO® Math Expeditions H

Geometry H - Geometry
Identify geometric shapes

PLATO® Math Expeditions I

Geometry I - Geometry

M.O.6.3.3 apply the concepts of parallel, perpendicular, intersecting, and skew lines to real-world situations (i.e. roads and routes).

PLATO® Math Expeditions F

Geometry F - Geometry
Classify points, lines & angles

PLATO® Math Expeditions G

Geometry G - Geometry

PLATO® Math Expeditions H

Geometry H - Geometry

PLATO® Math Expeditions I

Geometry I - Geometry

PLATO® Foundational Mathematics

Plane and Solid Figures
Lines in a Plane



M.O.6.3.4 create designs using line and rotational symmetry.

- PLATO® Achieve Now Adventures -- Mathematics
Math Gallery—Collection I; Series 30: Geoboard (Levels 1 & 3)
- Math Gallery—Collection I; Series 30: Geoboard (Level 2)
- P.K.'s Place 4—Daphne and the Seventh Wonder!; Gizametry (Level 2)
- PLATO® Foundational Mathematics
Plane and Solid Figures
Line Symmetry in Plane Figures

M.O.6.3.5 predict, describe, and perform transformations on two-dimensional shapes • translations • rotations • reflections

- PLATO® Math Expeditions G
Geometry G - Geometry
Identify congruent & similar
- PLATO® Math Expeditions H
Geometry H - Geometry
- PLATO® Math Expeditions I
Geometry I - Geometry
- PLATO® Achieve Now Adventures -- Mathematics
P.K.'s Place 4—Daphne and the Seventh Wonder!; Gizametry (Level 2)

M.O.6.3.6 use geometric representations to solve real-world problems.

- PLATO® Achieve Now Adventures -- Mathematics
Math Gallery—Collection I; Explore: Geoboard (Level 0)
- Math Gallery—Collection I; Series 30: Geoboard (Levels 1 & 3)
- Math Gallery—Collection I; Series 30: Geoboard (Level 2)
- P.K.'s Place 4—Daphne and the Seventh Wonder!; Geoglyphics (Level 1)
- P.K.'s Place 4—Daphne and the Seventh Wonder!; Geoglyphics (Level 2)
- P.K.'s Place 4—Daphne and the Seventh Wonder!; Geoglyphics (Level 3)
- P.K.'s Place 4—Daphne and the Seventh Wonder!; Gizametry (Level 1)

M.O.6.3.7 plot polygons on coordinate grids, determine lengths and areas from the graph.

- PLATO® Math Expeditions F
Geometry F - Geometry
Locate coordinate points
- PLATO® Math Expeditions G
Geometry G - Geometry
- PLATO® Math Expeditions H
Geometry H - Geometry
- PLATO® Math Expeditions I
Geometry I - Geometry



PLATO® Algebra I, Part I
Graphing Basics (Alg I.1)
Identifying Points on a Coordinate Plane (Alg I.1)
Coordinate Plane (Alg I.1)

PLATO® Achieve Now Adventures -- Mathematics
Timeless Math 5—Space Flight Rescue; Navigation System (Levels 1-4)

Standard 4: Measurement

M.O.6.4.1 determine an approximation for pi using actual measurements.

PLATO® Math Expeditions F
Geometry F - Geometry
Find the circumference

PLATO® Math Expeditions G
Geometry G - Geometry

PLATO® Math Expeditions H
Geometry H - Geometry

PLATO® Math Expeditions I
Geometry I - Geometry

M.O.6.4.2 develop and test hypotheses to determine formulas for •
perimeter of polygons, including composite figures • area of
parallelograms • area of triangles • area of composite figures made of
parallelograms and triangles • circumference of a circle • area of a circle •
volume of a rectangular prism

PLATO® Math Expeditions F
Geometry F - Geometry
Find the perimeter
Find the circumference
Find the area

PLATO® Math Expeditions G
Geometry G - Geometry
Find the perimeter
Find the circumference
Find the area

PLATO® Math Expeditions H
Geometry H - Geometry
Find the perimeter
Find the circumference
Find the area
Find the volume

PLATO® Math Expeditions I
Geometry I - Geometry
Find the perimeter
Find the circumference
Find the area
Find the volume

Inspired solutions for teaching and learning™



PLATO® Achieve Now Adventures -- Mathematics

Math Gallery—Collection 1; Series 30: Calculator (Level 1)

Math Gallery—Collection 1; Series 30: Calculator (Level 2)

Math Gallery—Collection 1; Series 30: Calculator (Level 3)

Math Gallery—Collection 1; Series 30: Geoboard (Levels 1 & 3)

Math Gallery—Collection 1; Series 30: Geoboard (Level 2)

The Quaddle Family Mysteries 3/The Case of the Scarce Scarab—Parlor and Family Room; Family Room: Brain Blastoff (Levels 1-3)

Timeless Math 5—Space Flight Rescue; Solar Panels (Level 1)

Timeless Math 5—Space Flight Rescue; Solar Panels (Levels 2-3)

Timeless Math 5—Space Flight Rescue; Solar Panels (Level 4)

PLATO® Foundational Mathematics

Using Geometry

Calculating the Area of Rectangles and Squares

Calculating the Area of Triangles

Calculating the Volume of Rectangular Prism

M.O.6.4.3 investigate, model and describe surface area of rectangular prisms and cylinders; develop strategies to determine the surface area of rectangular prisms

PLATO® Math Expeditions G

Geometry G - Geometry

Find the surface area

PLATO® Math Expeditions H

Geometry H - Geometry

PLATO® Math Expeditions I

Geometry I - Geometry

M.O.6.4.4 develop strategies to determine volume of cylinders; solve real-world problems involving volume of cylinders, justify the results.

PLATO® Math Expeditions H

Geometry H - Geometry

Find the volume

PLATO® Math Expeditions I

Geometry I - Geometry

M.O.6.4.5 given a two-dimensional polygon, construct a scale drawing given the scale factor.

PLATO® Algebra I, Part I

Special Topics (Alg 1.1)

Scaling and Proportion, Part 1 (Alg 1.1)

Scaling and Proportion, Part 2 (Alg. 1.1)



PLATO® Achieve Now Adventures -- Mathematics
Math Gallery—Collection 1; Series 30: Geoboard (Levels 1 & 3)
Math Gallery—Collection 1; Series 30: Geoboard (Level 2)

Standard 5: Data Analysis and Probability

M.O.6.5.1 collect, organize, display, read, interpret and analyze real-world data using appropriate graphs and tables (with and without technology).

PLATO® Data Skills

Reading Graphical Data

Introduction to Data in Tables

Reading Data in Tables

Computing Graphical Data

Tables

Reading Complex Charts and Graphs

Reading Complex Tables

Constructing Graphs and Charts

Constructing Histograms

Selecting Graphs and Charts

PLATO® Achieve Now Adventures -- Mathematics

Math Gallery—Collection 2; Series 30: Probability (Levels 1-3)

The Quaddle Family Mysteries 3/The Case of the Scarce Scarab—Parlor and Family Room; Parlor: Road Rally, U.S.A. (Levels 1-3)

Timeless Math 1—Maya, Search and Rescue; Strategy Room: Data Set (Level 0)

Timeless Math 2—Maya, Observatory; Strategy Room: Data Set (Level 0)

Timeless Math 3—Maya, King Jaguar's Village; Strategy Room: Data Set (Level 0)

Timeless Math 6—Brainswarm; Staiscope (Levels 1-2)

Timeless Math 6—Brainswarm; Staiscope (Level 3)

Timeless Math 6—Brainswarm; Random Radar (Levels 1-3)

M.O.6.5.2 collect and interpret real-world data, formulate questions using mean, median, mode, and range and determine the effect of outliers on the data (with and without technology).

PLATO® Math Expeditions F

Probability F - Probability

Range, median, mode & mean

PLATO® Math Expeditions G

Probability/Stats G - Probability/Stats

PLATO® Math Expeditions H

Probability/Stats H - Probability/Stats

Range, median, mode & mean



PLATO® Math Expeditions I
Probability/Stats I - Probability/Stats
Range, median, mode & mean

PLATO® Algebra I, Part I
Special Topics (Alg 1.1)
Mean, Median, and Mode (Alg 1.1)
Solving Problems with Mean, Median, and Mode (Alg 1.1)

PLATO® Achieve Now Adventures -- Mathematics
Timeless Math 6—Brainswarm; Statiscope (Levels 1-2)
Timeless Math 6—Brainswarm; Statiscope (Level 3)
Timeless Math 6—Brainswarm; Random Radar (Levels 1-3)

M.O.6.5.3 perform simple probability events using manipulatives; predict the outcome given events using experimental and theoretical probability; express experimental and theoretical probability as a ratio, decimal or percent.

PLATO® Math Expeditions H
Probability/Stats H - Probability/Stats
Find the probability & outcomes

PLATO® Math Expeditions I
Probability/Stats I - Probability/Stats
Find probability & outcomes

PLATO® Algebra I, Part I
Special Topics (Alg 1.1)
Probability and Possible Outcomes (Alg 1.1)
Probability of an Event (Alg 1.1)
Solving Problems with Probability (Alg 1.1)

PLATO® Achieve Now Adventures -- Mathematics
Math Gallery—Collection 2; Series 30: Probability (Levels 1-3)
Timeless Math 6—Brainswarm; Random Radar (Levels 1-3)

M.O.6.5.4 determine combinations and permutations of given real-world situations by multiple strategies, including creating lists.

PLATO® Math Expeditions H
Probability/Stats H - Probability/Stats
Find the probability & outcomes

PLATO® Math Expeditions I
Probability/Stats I - Probability/Stats
Find probability & outcomes

PLATO® Algebra I, Part I
Special Topics (Alg 1.1)
Probability and Possible Outcomes (Alg 1.1)

PLATO® Achieve Now Adventures -- Mathematics
Timeless Math 6—Brainswarm; Combo Tracker (Levels 1-3)



Grade 07

Standard I: Number and Operations

M.O.7.1.1 compare, order, and differentiate among integers, decimals, fractions, and irrational numbers using multiple representations (e.g., symbols, manipulatives, graphing on a number line).

PLATO® Applied Mathematics
Applied Math
Math Conversions

PLATO® Math Expeditions G
Fractions G - Fractions
Compare & order fractions

Ratio/Proportion G - Ratio/Proportion
Decimals & fractions as %

PLATO® Math Expeditions H
Numeration H - Compare
Compare numbers & decimals

Numeration H - Order
Order numbers & decimals

Fractions H - Fractions
Compare & order fractions

Ratio/Proportion/% H - Ratio/Proportion/%
Decimals & fractions as %

PLATO® Math Expeditions I
Numeration I - Compare
Compare whole numbers & decimals
Compare rational numbers

Numeration I - Order
Order numbers & decimals
Order rational numbers

Fractions I - Fractions
Compare & order fractions

Ratio/Proportion/% I - Ratio/Proportion/%
Decimals & fractions as %

PLATO® Algebra I, Part I
Basic Number Ideas (Alg I.1)
The Additive Inverse of Integers (Alg I.1)
Multiplying Common Fractions (Alg I.1)
Multiplying and Dividing Mixed Numbers (Alg I.1)
Mental Math with Fractions and Percents (Alg I.1)

Graphing Basics (Alg I.1)
Coordinate Plane (Alg I.1)



Special Topics (Alg I.1)

- Converting Percents Less than 1% to Decimals (Alg I.1)
- Converting a Decimal to a Fraction of a Percent (Alg I.1)
- Finding the Amount with Percents Less than 1% (Alg I.1)
- Converting Percents Greater than 100% to Decimals (Alg I.1)
- Converting a Number Greater than 1 to a Percent (Alg I.1)

PLATO® Foundational Mathematics

Understanding Whole Numbers I

- Greater Than, Less Than, Equal To
- Comparing Whole Numbers: 10 through 99

Understanding Fractions

- Understanding Fractions: Equal Parts of an Object
- Understanding Fractions: Equal Parts of a Collection
- Comparing Fractions
- Ordering Fractions

Understanding Decimals

- Understanding Decimals: Tenths
- Understanding Decimal Place Value: Tenths and Hundredths
- Comparing and Ordering Decimals

Performing Operations with Decimals

- Renaming a Fraction as a Decimal

Working with Percent

- Understanding Percent

M.O.7.1.2 model the relationship between perfect squares and square roots using physical representations; estimate square root and evaluate using technology.

PLATO® Algebra I, Part I

Basic Number Ideas (Alg I.1)

- Square Roots of Perfect Squares (Alg I.1)
- Square Roots of Imperfect Squares (Alg I.1)

M.O.7.1.3 using simple computation and problem-solving situations, demonstrate fluency and justify solutions in performing operations with rational numbers including negative numbers for • adding • subtracting • multiplying • dividing

PLATO® Math Problem Solving

Math Fundamentals

- Math Problem Solving: Building a Highway
- Math Problem Solving: Smart Shopping
- Math Problem Solving: Car Costs
- Math Problem Solving: Running a Business

Data Skills

- Math Problem Solving: Planning a Playground
- Math Problem Solving: Growing Lilies



Geometry and Measurement

Math Problem Solving: Planning a Park

Math Problem Solving: Shelf Space

Probability and Statistics

Math Problem Solving: The Fund Raiser

PLATO® Math Expeditions G

Number Operations G - Addition

Add numbers up to 3-digits

Add numbers up to 6-digits

Number Operations G - Subtraction

Subtract 1, 2, or 3-digit numbers

Subtract numbers up to 6-digits

Subtract numbers with zeros

Number Operations G - Multiplication

Multiply by 1-digit numbers

Multiply by 2, 3, 4-digit numbers

Number Operations G - Division

Divide up to 5-digits by 1-digit numbers

Divide 3, 4, or 5-digits by 1-digit numbers

3-digits, 4-digits divided by 2-digit, multiples of 10

2-digits, 3-digits divided by 2-digit, 1-digit quotient

Divide by 2-digits, 2-digit quotient

3, 4, 5-digits divided by 2-digits

4, 5, 6-digits divided by 3-digits

Fractions G - Fractions

Add & subtract different fractions

Add mixed numbers

Subtract mixed numbers

Multiply fractions & mixed numbers

Divide fractions

Decimals G - Decimals

Add and subtract decimals

Multiply decimals

Divide decimals

PLATO® Math Expeditions H

Number Operations H - Addition

Add numbers up to 6-digits

Add decimals

Number Operations H - Subtraction

Subtract numbers up to 6-digits

Subtract decimals

Number Operations H - Multiplication

Multiply by 1-digit numbers

Multiply by 2, 3, 4-digit numbers

Multiply decimals



Number Operations H - Division
Divide whole numbers
Divide a decimal by a whole number
Divide by decimals

Fractions H - Fractions
Add & subtract different fractions
Add mixed numbers
Subtract mixed numbers
Multiply fractions & mixed numbers
Divide fractions

Decimals H - Decimals
Add & subtract decimals
Multiply decimals
Divide decimals

PLATO® Math Expeditions I

Number Operations I - Addition
Add numbers up to 6-digits
Add decimals

Number Operations I - Subtraction
Subtract numbers up to 6-digits
Subtract decimals

Number Operations I - Multiplication
Multiply by 1-digit numbers
Multiply by 2, 3, 4-digit numbers
Multiply decimals

Number Operations I - Division
Divide whole numbers
Divide a decimal by whole number
Divide by decimals

Fractions I - Fractions
Add & subtract different fractions
Add mixed numbers
Subtract mixed numbers
Multiply fractions & mixed numbers
Divide fractions

Decimals I - Decimals
Add & subtract decimals
Multiply decimals
Divide decimals

PLATO® Algebra I, Part I

Basic Number Ideas (Alg I.1)
Adding Integers (Alg I.1)
Subtracting Integers (Alg I.1)
Multiplying Integers (Alg I.1)
Dividing Integers (Alg I.1)
Multiplying Common Fractions (Alg I.1)
Adding and Subtracting Fractions (Alg I.1)

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Adding and Subtracting Mixed Numbers (Alg 1.1)
Dividing Fractions (Alg 1.1)
Multiplying and Dividing Mixed Numbers (Alg 1.1)
Mental Math with Whole Numbers and Decimals (Alg 1.1)

PLATO® Foundational Mathematics

Adding and Subtracting Whole Numbers I
Adding Two 2-Digit Numbers: Sums Less Than 100
Adding Three or Four Numbers
Subtracting a 1-Digit Number from a 2-Digit Number
Subtracting Two 2-Digit Numbers
Adding Two 2-Digit Numbers: Sums Greater Than 99

Course: Adding and Subtracting Whole Numbers 2: Module: Adding Multi-Digit Numbers

Course: Adding and Subtracting Whole Numbers 2: Module: Subtracting Multi-Digit Numbers with Regrouping

Course: Adding and Subtracting Whole Numbers 2: Module: Subtracting Multi-Digit Numbers with Consecutive Regrouping

Course: Adding and Subtracting Whole Numbers 2: Module: Subtracting across Zeros

Course: Adding and Subtracting Whole Numbers 2: Module: Solving Addition and Subtraction Story Problems

Multiplying Whole Numbers
Multiplying a 2-Digit Number by a 1-Digit Number
Multiplying by a Multiple of 10 or 100
Multiplying a 3-Digit Number by a 1-Digit Number
Multiplying a Multiple of 10 by a Multiple of 10
Multiplying a 2-Digit Number by a 2-Digit Number
Solving Multiplication Story Problems

Dividing Whole Numbers
Dividing by a 1-Digit Number
Dividing by a 2-Digit Number
Dividing Multiples of 100
Writing a Quotient as a Mixed Number
Solving Division Story Problems

Adding and Subtracting Fractions
Adding and Subtracting Fractions: Like Denominators
Adding and Subtracting Fractions: Unlike Denominators
Adding Mixed Numbers
Subtracting Mixed Numbers: Like Denominators
Subtracting Mixed Numbers: Unlike Denominators

Multiplying and Dividing Fractions
Multiplying Two Fractions
Multiplying Whole Numbers and Mixed Numbers
Dividing a Fraction by a Fraction
Dividing Fractions, Whole Numbers, and Mixed Numbers
Solving Fraction Story Problems



Performing Operations with Decimals
Adding and Subtracting Decimals
Multiplying Decimals
Multiplying Decimals by 10 or 100
Dividing Decimals
Dividing a 2-Digit Number by 10 or 100
Solving Decimal Story Problems

M.O.7.1.4 justify the use of the commutative, associative, distributive, identity and inverse properties to simplify numeric expressions.

PLATO® Math Expeditions G
Number Operations G - Subtraction
Subtract numbers with zeros

Fractions G - Fractions
Divide fractions

PLATO® Math Expeditions H
Fractions H - Fractions

PLATO® Math Expeditions I
Fractions I - Fractions

PLATO® Algebra I, Part I
Basic Number Ideas (Alg I.1)
The Additive Inverse of Integers (Alg I.1)
Subtracting Integers (Alg I.1)
Math Sentences (Alg I.1)
Order of Operations (Alg I.1)
Expressions in 2 or More Variables (Alg I.1)
Linear Equations in 1 Variable: Isolating the Variable (Alg I.1)

PLATO® Foundational Mathematics
Understanding Addition and Subtraction 2
Using the Identity Property of Addition
Using the Commutative Property of Addition
Using the Associative Property of Addition
Understanding Multiplication
Using the Identity Property of Multiplication
Using the Commutative Property of Multiplication
Using the Associative Property of Multiplication
Using the Distributive Property of Multiplication over Addition
Multiplying and Dividing Fractions
Finding the Reciprocal

M.O.7.1.5 analyze and solve grade-appropriate real-world problems with whole numbers, integers, decimals, fractions and percents including problems involving • discounts, • interest, • taxes, • tips, • percent increase or decrease, and justify solutions including using estimation and reasonableness.



PLATO® Math Problem Solving

Math Fundamentals

- Math Problem Solving: Building a Highway**
- Math Problem Solving: Smart Shopping**
- Math Problem Solving: Car Costs**
- Math Problem Solving: Running a Business**

Data Skills

- Math Problem Solving: Planning a Playground**
- Math Problem Solving: Growing Lilies**

Advanced Algebra

- Math Problem Solving: Building Boats**

Geometry and Measurement

- Math Problem Solving: Planning a Park**
- Math Problem Solving: Shelf Space**

Probability and Statistics

- Math Problem Solving: The Fund Raiser**
- Math Problem Solving: Statistics for Quality**

PLATO® Applied Mathematics

Applied Math

- Math Conversions**
- Using Base, Rate, and Proportion**

PLATO® Math Expeditions G

- Ratio/Proportion G - Ratio/Proportion**
- Find percents**
- Solve percents**

PLATO® Math Expeditions H

- Ratio/Proportion/% H - Ratio/Proportion/%**
- Find percents**
- Solve percents**
- Find numbers from percents**

PLATO® Math Expeditions I

- Ratio/Proportion/% I - Ratio/Proportion/%**
- Find percents**
- Solve percents**
- Find numbers from percents**

PLATO® Algebra I, Part I

- Basic Number Ideas (Alg I.1)**
- Using Basic Number Ideas (Alg I.1)**
- Mental Math with Fractions and Percents (Alg I.1)**

Special Topics (Alg I.1)

- Finding the Amount with Percents Less than 1% (Alg I.1)**
- Solving Problems with Percents (Alg I.1)**
- Estimation Basics (Alg I.1)**



PLATO® Foundational Mathematics

Course: Adding and Subtracting Whole Numbers 2: Module: Solving Addition and Subtraction Story Problems

Multiplying Whole Numbers

Solving Multiplication Story Problems

Dividing Whole Numbers

Solving Division Story Problems

Multiplying and Dividing Fractions

Solving Fraction Story Problems

Performing Operations with Decimals

Solving Decimal Story Problems

Working with Percent

Finding a Percent of a Whole Number

Finding a Percent of a Decimal Number

Understanding Ratio and Proportion

Solving Ratio, Proportion, and Percent Story Problems

M.O.7.1.6 use inductive reasoning to find and justify the laws of exponents with numeric bases

PLATO® Algebra I, Part I

Basic Number Ideas (Alg I.1)

Exponents: Product Rule (Alg I.1)

Exponents: Power Rule (Alg I.1)

Math Sentences (Alg I.1)

Multiplying Monomials (Alg I.1)

Dividing Monomials (Alg I.1)

M.O.7.1.7 solve problems using numbers in scientific notation (positive and negative exponents) with and without technology, and interpret from real life contexts.

PLATO® Math Expeditions I

Numeration I - Place Value

Write in scientific notation

Standard 2: Algebra

M.O.7.2.1 use inductive reasoning to find missing elements in a variety of arithmetic and geometric patterns including algebraic sequences and series.

PLATO® Algebra I, Part I

Introduction to Functions (Alg I.1)

Patterns and Sequences (Alg I.1)

M.O.7.2.2 evaluate algebraic expressions with whole numbers, integers, absolute value and exponents using the order of operations.



PLATO® Algebra I, Part I

Math Sentences (Alg I.1)

Order of Operations (Alg I.1)

Expressions in 1 Variable (Alg I.1)

Expressions in 2 or More Variables (Alg I.1)

Determining the Truth Value of a Statement (Alg I.1)

Adding Monomials (Alg I.1)

Subtracting Monomials (Alg I.1)

Adding Binomials and Monomials (Alg I.1)

Subtracting Binomials and Monomials (Alg I.1)

M.O.7.2.3 solve problems by creating an input/output function table(including, but not limited to, spreadsheets) to predict future values, given a real-world situation involving rational numbers.

PLATO® Math Problem Solving

Advanced Algebra

Math Problem Solving: Building Boats

PLATO® Algebra I, Part I

Math Sentences (Alg I.1)

Determining the Truth Value of a Statement (Alg I.1)

Graphing Basics (Alg I.1)

Ordered Pairs as Solutions of Linear Equations (Alg I.1)

Introduction to Functions (Alg I.1)

Functions (Alg I.1)

Describing Functions with Equations, Tables, and Graphs (Alg I.1)

Linear Patterns (Alg I.1)

M.O.7.2.4 analyze proportional relationships in real-world situations, select an appropriate method to determine the solution and justify reasoning for choice of method to solve.

PLATO® Math Problem Solving

Math Fundamentals

Math Problem Solving: Building a Highway

Math Problem Solving: Smart Shopping

Math Problem Solving: Car Costs

Math Problem Solving: Running a Business

Advanced Algebra

Math Problem Solving: Building Boats

Geometry and Measurement

Math Problem Solving: Planning a Park

Math Problem Solving: Shelf Space

Probability and Statistics

Math Problem Solving: The Fund Raiser

PLATO® Math Expeditions G

Ratio/Proportion G - Ratio/Proportion

Solve rates & proportions



PLATO® Math Expeditions H
Ratio/Proportion/% H - Ratio/Proportion/%

PLATO® Math Expeditions I
Ratio/Proportion/% I - Ratio/Proportion/%

PLATO® Algebra I, Part I
Basic Number Ideas (Alg 1.1)
Using Basic Number Ideas (Alg 1.1)

Special Topics (Alg 1.1)
Scaling and Proportion, Part 2 (Alg. 1.1)

PLATO® Foundational Mathematics
Understanding Ratio and Proportion
Solving Proportions
Solving Ratio, Proportion, and Percent Story Problems

M.O.7.2.5 solve one-step linear equations and inequalities using a variety of strategies containing rational numbers with integer solutions; graph solutions, and justify the selection of the strategy and the reasonableness of the solution.

PLATO® Math Expeditions H
Ratio/Proportion/% H - Ratio/Proportion/%
Find numbers from percents

PLATO® Math Expeditions I
Ratio/Proportion/% I - Ratio/Proportion/%

PLATO® Algebra I, Part I
Math Sentences (Alg 1.1)
Expressions in 1 Variable (Alg 1.1)
Expressions in 2 or More Variables (Alg 1.1)
Determining the Truth Value of a Statement (Alg 1.1)
Linear Equations in 1 Variable: Solving by Inspection (Alg 1.1)
Linear Equations in 1 Variable: Isolating the Variable (Alg 1.1)
Linear Inequalities in 1 Variable, Part 1 (Alg 1.1)
Linear Inequalities in 1 Variable, Part 2 (Alg 1.1)
More Difficult Linear Inequalities in 1 Variable (Alg 1.1)

Graphing Basics (Alg 1.1)
Ordered Pairs as Solutions of Linear Equations (Alg 1.1)
Graphing Linear Equations in 2 Variables (Alg 1.1)

Introduction to Functions (Alg 1.1)
Graphs, Slopes, and y-Intercepts (Alg 1.1)

M.O.7.2.6 plot lines within the Cartesian coordinate plane from a table of values to solve mathematical real-world problems.

PLATO® Math Problem Solving
Advanced Algebra
Math Problem Solving: Building Boats



- PLATO® Algebra I, Part I
 - Math Sentences (Alg I.1)
 - Using Linear Equations to Solve Problems (Alg I.1)
 - Graphing Basics (Alg I.1)
 - Graphing Linear Equations in 2 Variables (Alg I.1)
 - Equations and Formulas (Alg I.1)
 - Literal Equations (Alg I.1)
 - Introduction to Functions (Alg I.1)
 - Linear Patterns (Alg I.1)
 - Graphs, Slopes, and y-Intercepts (Alg I.1)
 - Interpreting Graphs to Solve Problems (Alg I.1)

M.O.7.2.7 determine the slope of a line from its graphical representation.

- PLATO® Algebra I, Part I
 - Introduction to Functions (Alg I.1)
 - Graphs, Slopes, and y-Intercepts (Alg I.1)
 - Equations, Graphs, Slopes, and y-Intercepts (Alg I.1)

M.O.7.2.8 represent algebraically and solve real-world application problems and justify solutions.

- PLATO® Math Problem Solving
 - Advanced Algebra
 - Math Problem Solving: Building Boats
- PLATO® Math Expeditions H
 - Ratio/Proportion/% H - Ratio/Proportion/%
 - Find numbers from percents
- PLATO® Math Expeditions I
 - Ratio/Proportion/% I - Ratio/Proportion/%
- PLATO® Algebra I, Part I
 - Basic Number Ideas (Alg I.1)
 - Using Basic Number Ideas (Alg I.1)
 - Math Sentences (Alg I.1)
 - Expressions in 1 Variable (Alg I.1)
 - Expressions in 2 or More Variables (Alg I.1)
 - Using Linear Equations to Solve Problems (Alg I.1)
 - Equations and Formulas (Alg I.1)
 - Literal Equations (Alg I.1)
 - Introduction to Functions (Alg I.1)
 - Interpreting Graphs to Solve Problems (Alg I.1)

M.O.7.2.9 identify a real life problem involving proportionality; make a hypothesis as to the outcome; develop, justify, and implement a method to collect, organize, and analyze data; generalize the results to make a conclusion; compare the hypothesis and the conclusion; present the project using words, graphs, drawings, models, or tables.



PLATO® Math Problem Solving

Math Fundamentals

- Math Problem Solving: Building a Highway**
- Math Problem Solving: Smart Shopping**
- Math Problem Solving: Car Costs**
- Math Problem Solving: Running a Business**

Data Skills

- Math Problem Solving: Planning a Playground**
- Math Problem Solving: Growing Lilies**

Advanced Algebra

- Math Problem Solving: Building Boats**

Geometry and Measurement

- Math Problem Solving: Planning a Park**
- Math Problem Solving: Shelf Space**

Probability and Statistics

- Math Problem Solving: The Fund Raiser**
- Math Problem Solving: Making the Grade**
- Math Problem Solving: Statistics for Quality**

PLATO® Data Skills

- Constructing Graphs and Charts**
- Constructing Histograms**
- Selecting Graphs and Charts**

PLATO® Math Expeditions G

- Ratio/Proportion G - Ratio/Proportion**
- Solve rates & proportions**

PLATO® Math Expeditions H

- Ratio/Proportion/% H - Ratio/Proportion/%**

PLATO® Math Expeditions I

- Ratio/Proportion/% I - Ratio/Proportion/%**

PLATO® Algebra I, Part I

- Basic Number Ideas (Alg 1.1)**
- Using Basic Number Ideas (Alg 1.1)**

Special Topics (Alg 1.1)

- Scaling and Proportion, Part 2 (Alg. 1.1)**

PLATO® Foundational Mathematics

- Understanding Ratio and Proportion**
- Solving Proportions**
- Solving Ratio, Proportion, and Percent Story Problems**

Standard 3: Geometry

M.O.7.3.1 identify and construct • angle-pairs adjacent, complementary, supplementary, vertical • congruent segments and angles • perpendicular bisectors of segments • angle-bisectors



PLATO® Geometry and Measurement I
Geometry
Special Angles, Part 1
Special Angles, Part 2

PLATO® Math Expeditions G
Geometry G - Geometry
Classify points, lines & angles

PLATO® Math Expeditions H
Geometry H - Geometry
Identify geometric shapes

PLATO® Math Expeditions I
Geometry I - Geometry
Classify points, lines & angles
Identify geometric shapes

PLATO® Foundational Mathematics
Plane and Solid Figures
Lines in a Plane
Introduction to Quadrilaterals

M.O.7.3.2 apply line symmetry to classify plane figures.

PLATO® Foundational Mathematics
Plane and Solid Figures
Line Symmetry in Plane Figures

M.O.7.3.3 apply rotations, reflections, translations to plane figures and determine the coordinates of its transformation.

PLATO® Math Expeditions G
Geometry G - Geometry
Identify congruent & similar

PLATO® Math Expeditions H
Geometry H - Geometry

PLATO® Math Expeditions I
Geometry I - Geometry

PLATO® Foundational Mathematics
Plane and Solid Figures
Exploring Similar Figures

M.O.7.3.4 pose and solve ratio and proportion problems including scale drawings and similar polygons.

PLATO® Math Problem Solving
Math Fundamentals
Math Problem Solving: Building a Highway
Math Problem Solving: Smart Shopping
Math Problem Solving: Car Costs
Math Problem Solving: Running a Business



Advanced Algebra
Math Problem Solving: Building Boats

Geometry and Measurement
Math Problem Solving: Planning a Park
Math Problem Solving: Shelf Space

Probability and Statistics
Math Problem Solving: The Fund Raiser

PLATO® Math Expeditions G
Ratio/Proportion G - Ratio/Proportion
Solve rates & proportions

PLATO® Math Expeditions H
Ratio/Proportion/% H - Ratio/Proportion/%

PLATO® Math Expeditions I
Ratio/Proportion/% I - Ratio/Proportion/%

PLATO® Algebra I, Part I
Basic Number Ideas (Alg I.1)
Using Basic Number Ideas (Alg I.1)

Special Topics (Alg I.1)
Scaling and Proportion, Part 1 (Alg I.1)
Scaling and Proportion, Part 2 (Alg. I.1)

PLATO® Foundational Mathematics
Understanding Ratio and Proportion
Solving Proportions
Solving Ratio, Proportion, and Percent Story Problems

M.O.7.3.5 solve problems and explain the relationships among scale factor and area and volume including • square of a scale factor • cube of a scale factor

PLATO® Algebra I, Part I
Basic Number Ideas (Alg I.1)
Square Roots of Perfect Squares (Alg I.1)

Special Topics (Alg I.1)
Scaling and Proportion, Part 1 (Alg I.1)
Scaling and Proportion, Part 2 (Alg. I.1)

M.O.7.3.6 solve mathematical real-world problems using compound geometric figures.

PLATO® Math Problem Solving
Geometry and Measurement
Math Problem Solving: Planning a Park

PLATO® Geometry and Measurement I
Measurement
Using Measurement

Standard 4: Measurement

Inspired solutions for teaching and learning™



M.O.7.4.I select and apply an appropriate method to solve (including, but not limited to, formulas) justify the method and the reasonableness of the solution, given a real-world problem solving situation involving • perimeter • circumference • area • surface area of prisms (rectangular and triangular) • volume of prisms and cylinders • distance and temperature (Celsius, Fahrenheit)

PLATO® Math Problem Solving
Geometry and Measurement
Math Problem Solving: Planning a Park
Math Problem Solving: Shelf Space

PLATO® Applied Mathematics
Applied Math
Converting Linear Measurements
Converting Volume Measurements
Using Linear Measurement Tools

PLATO® Geometry and Measurement I
Geometry
Circles/Arcs/Circumferences
Using Geometry

Measurement
Metric Measurement
Area, Part 1
Area, Part 2
Volume
Using Measurement

PLATO® Math Expeditions G
Geometry G - Geometry
Find the perimeter
Find the circumference
Find the area
Find the volume
Find the surface area

PLATO® Math Expeditions H
Geometry H - Geometry
Find the perimeter
Find the circumference
Find the area
Find the volume
Find the surface area

PLATO® Math Expeditions I
Geometry I - Geometry
Find the perimeter
Find the circumference
Find the area
Find the volume
Find the surface area



PLATO® Algebra I, Part I
Basic Number Ideas (Alg 1.1)
Using Basic Number Ideas (Alg 1.1)
Special Topics (Alg 1.1)
Estimation Basics (Alg 1.1)
Scaling and Proportion, Part 2 (Alg. 1.1)

PLATO® Foundational Mathematics
Using Geometry
Area: Counting Square Units
Calculating the Area of Rectangles and Squares
Calculating the Area of Triangles
Calculating the Volume of Rectangular Prism
Measurement
Measuring Length: Metric Units
Measuring Length: Customary Units
Measuring Temperature: Fahrenheit
Measuring Temperature: Celsius

M.O.7.4.2 use the Pythagorean Theorem to find the length of any side of a right triangle and apply to problem solving situations.

PLATO® Geometry and Measurement I
Geometry
The Pythagorean Theorem I
Using Geometry

M.O.7.4.3 convert units of measurement, linear, area and volume, within customary and metric systems.

PLATO® Applied Mathematics
Applied Math
Converting Linear Measurements
Converting Weight Measurements
Converting Volume Measurements

PLATO® Geometry and Measurement I
Measurement
Metric Measurement

Standard 5: Data Analysis and Probability

M.O.7.5.1 determine theoretical probability of an event, make and test predictions through experimentation.

PLATO® Math Problem Solving
Probability and Statistics
Math Problem Solving: The Fund Raiser

PLATO® Math Expeditions H
Probability/Stats H - Probability/Stats
Find the probability & outcomes



PLATO® Math Expeditions I
Probability/Stats I - Probability/Stats
Find probability & outcomes

PLATO® Algebra I, Part I
Special Topics (Alg I.1)
Probability of an Event (Alg I.1)
Solving Problems with Probability (Alg I.1)

M.O.7.5.2 determine combinations and permutations by constructing sample spaces (e.g., listing, tree diagrams, frequency distribution tables).

PLATO® Math Problem Solving
Data Skills
Math Problem Solving: Planning a Playground
Math Problem Solving: Growing Lilies

Probability and Statistics
Math Problem Solving: The Fund Raiser
Math Problem Solving: Making the Grade
Math Problem Solving: Statistics for Quality

PLATO® Data Skills
Reading Graphical Data
Introduction to Data in Tables
Reading Data in Tables

Computing Graphical Data
Tables

Reading Complex Charts and Graphs
Reading Complex Tables

Constructing Graphs and Charts
Selecting Graphs and Charts

PLATO® Math Expeditions H
Probability/Stats H - Probability/Stats
Find the probability & outcomes

PLATO® Math Expeditions I
Probability/Stats I - Probability/Stats
Find probability & outcomes

PLATO® Algebra I, Part I
Special Topics (Alg I.1)
Probability and Possible Outcomes (Alg I.1)
Probability of an Event (Alg I.1)
Solving Problems with Probability (Alg I.1)

M.O.7.5.3 collect, organize, graphically represent, and interpret data displays including frequency distributions, line-plots, scatter plots, box and whiskers, and multiple-line graphs.

PLATO® Math Problem Solving
Data Skills



Math Problem Solving: Planning a Playground
Math Problem Solving: Growing Lilies

Probability and Statistics

Math Problem Solving: Making the Grade
Math Problem Solving: Statistics for Quality

PLATO® Data Skills

Reading Graphical Data

Introduction to Line Graphs
Reading Line Graphs
Introduction to Data in Tables
Reading Data in Tables

Computing Graphical Data

Graphing and Charting
Tables
Using Line Graphs

Reading Complex Charts and Graphs

Reading Complex Tables

Constructing Graphs and Charts

Constructing Line Graphs
Constructing Histograms
Selecting Graphs and Charts

PLATO® Math Expeditions G

Graphs G - Graphs
Data from graphs

PLATO® Math Expeditions H

Graphs H - Graphs
Data from graphs

PLATO® Math Expeditions I

Graphs I - Graphs
Data from graphs

PLATO® Algebra I, Part I

Introduction to Functions (Alg I.1)
Interpreting Graphs to Solve Problems (Alg I.1)

M.O.7.5.4 analyze and solve application problems involving measures of central tendency (mean, median, mode) and dispersion (range) from data, graphs, tables, and experiments using appropriate technology to compare two sets of data.

PLATO® Math Problem Solving

Data Skills
Math Problem Solving: Growing Lilies

Probability and Statistics

Math Problem Solving: Making the Grade
Math Problem Solving: Statistics for Quality



PLATO® Math Expeditions G

Probability/Stats G - Probability/Stats
Range, median, mode & mean

PLATO® Math Expeditions H

Probability/Stats H - Probability/Stats
Range, median, mode & mean

PLATO® Math Expeditions I

Probability/Stats I - Probability/Stats
Range, median, mode & mean

PLATO® Algebra I, Part I

Special Topics (Alg I.1)

Mean, Median, and Mode (Alg I.1)

Solving Problems with Mean, Median, and Mode (Alg I.1)

Grade 08

Standard I: Number and Operations

M.O.8.1.1 analyze, describe and compare the characteristics of rational and irrational numbers.

PLATO® Math Expeditions I

Numeration I - Compare
Compare rational numbers

Numeration I - Order
Order rational numbers

M.O.8.1.2 analyze and solve application problems with • powers, • squares, • square roots, • scientific notation, and verify solutions using estimation techniques.

PLATO® Algebra I, Part I

Basic Number Ideas (Alg I.1)

Exponents: Exponential Form (Alg I.1)

Exponents: Expanded Form (Alg I.1)

Exponents: Product Rule (Alg I.1)

Exponents: Power Rule (Alg I.1)

Square Roots of Perfect Squares (Alg I.1)

Square Roots of Imperfect Squares (Alg I.1)

Using Basic Number Ideas (Alg I.1)

Math Sentences (Alg I.1)

Multiplying Monomials (Alg I.1)

Dividing Monomials (Alg I.1)

Special Topics (Alg I.1)

Estimation Basics (Alg I.1)

PLATO® Algebra I, Part 2

Sets and Numbers (Alg I.2)

Positive and Negative Exponents (Alg I.2)

Integer Exponents and the Product Rule (Alg I.2)



Integer Exponents and the Quotient Rule (Alg 1.2)
Integer Exponents and the Power Rule, Part 1 (Alg 1.2)
Integer Exponents and the Power Rule, Part 2 (Alg 1.2)
Square Roots of Integers (Alg 1.2)
Review: Exponents and Radicals (Alg 1.2)

Polynomials and Factoring (Alg 1.2)
Monomial Product (Alg 1.2)
Monomial Quotient (Alg 1.2)

PLATO® Algebra 2, Part 2
Numbers and their Properties (Alg 2.2)
Rules for Exponents and Radicals (Alg 2.2)
Scientific Notation (Alg 2.2)

M.O.8.1.3 analyze and solve grade-appropriate real-world problems with • whole numbers, • decimals, • fractions, • percents, percent increase and decrease, • integers, and including, but not limited to, rates, tips, discounts, sales tax and interest and verify solutions using estimation techniques.

PLATO® Math Problem Solving
Math Fundamentals
Math Problem Solving: Building a Highway
Math Problem Solving: Smart Shopping
Math Problem Solving: Car Costs
Math Problem Solving: Running a Business

Data Skills
Math Problem Solving: Planning a Playground
Math Problem Solving: Growing Lilies

Beginning Algebra
Math Problem Solving: Plan for Fishing Trip
Math Problem Solving: Tunnel through Bald Mountain
Math Problem Solving: Bean-Counting

Advanced Algebra
Math Problem Solving: Building Boats

Geometry and Measurement
Math Problem Solving: Planning a Park
Math Problem Solving: Shelf Space

Probability and Statistics
Math Problem Solving: The Fund Raiser
Math Problem Solving: Statistics for Quality

PLATO® Applied Mathematics
Applied Math
Math Conversions
Using Base, Rate, and Proportion

PLATO® Math Expeditions H
Ratio/Proportion/% H - Ratio/Proportion/%

Inspired solutions for teaching and learning™



- Solve rates & proportions
- Find percents
- Solve percents
- Find numbers from percents

PLATO® Math Expeditions I

- Ratio/Proportion/% I - Ratio/Proportion/%**
 - Solve rates & proportions
 - Find percents
 - Solve percents
 - Find numbers from percents

PLATO® Algebra I, Part I

- Basic Number Ideas (Alg 1.1)**
 - Using Basic Number Ideas (Alg 1.1)
 - Mental Math with Fractions and Percents (Alg 1.1)

Special Topics (Alg 1.1)

- Finding the Amount with Percents Less than 1% (Alg 1.1)
- Solving Problems with Percents (Alg 1.1)
- Estimation Basics (Alg 1.1)
- Scaling and Proportion, Part 2 (Alg. 1.1)

PLATO® Algebra I, Part 2

- Equations and Inequalities (Alg 1.2)**
 - Solving Problems with Linear Equations in 1 Variable (Alg 1.2)

PLATO® Algebra 2, Part 2

- Exponential and Logarithmic Functions (Alg 2.2)**
 - Solving Problems: Exponential and Logarithmic (Alg 2.2)
 - Exponential Growth (Alg 2.2)

PLATO® Foundational Mathematics

Course: Adding and Subtracting Whole Numbers 2: Module: Solving Addition and Subtraction Story Problems

- Multiplying Whole Numbers**
 - Solving Multiplication Story Problems

- Dividing Whole Numbers**
 - Solving Division Story Problems

- Multiplying and Dividing Fractions**
 - Solving Fraction Story Problems

- Performing Operations with Decimals**
 - Solving Decimal Story Problems

- Working with Percent**
 - Finding a Percent of a Whole Number
 - Finding a Percent of a Decimal Number

- Understanding Ratio and Proportion**
 - Solving Proportions
 - Solving Ratio, Proportion, and Percent Story Problems

Standard 2: Algebra

Inspired solutions for teaching and learning™



M.O.8.2.01 use a variety of strategies to solve one and two-step linear equations and inequalities with rational solutions; defend the selection of the strategy; graph the solutions and justify the reasonableness of the solution.

PLATO® Math Problem Solving

Beginning Algebra

Math Problem Solving: Plan for Fishing Trip

Intermediate Algebra

Math Problem Solving: Video Rental

Math Problem Solving: Running a Race

Advanced Algebra

Math Problem Solving: Building Boats

PLATO® Math Expeditions H

Ratio/Proportion/% H - Ratio/Proportion/%

Find numbers from percents

PLATO® Math Expeditions I

Ratio/Proportion/% I - Ratio/Proportion/%

PLATO® Algebra I, Part 1

Basic Number Ideas (Alg 1.1)

Using Basic Number Ideas (Alg 1.1)

Math Sentences (Alg 1.1)

Determining the Truth Value of a Statement (Alg 1.1)

Linear Equations in 1 Variable: Solving by Inspection (Alg 1.1)

Linear Equations in 1 Variable: Isolating the Variable (Alg 1.1)

Linear Inequalities in 1 Variable, Part 1 (Alg 1.1)

Linear Inequalities in 1 Variable, Part 2 (Alg 1.1)

More Difficult Linear Inequalities in 1 Variable (Alg 1.1)

Graphing Basics (Alg 1.1)

Ordered Pairs as Solutions of Linear Equations (Alg 1.1)

Graphing Linear Equations in 2 Variables (Alg 1.1)

Equations and Formulas (Alg 1.1)

Literal Equations (Alg 1.1)

Introduction to Functions (Alg 1.1)

Graphs, Slopes, and y-Intercepts (Alg 1.1)

PLATO® Algebra I, Part 2

Equations and Inequalities (Alg 1.2)

Simple Equations in 1 Variable: Using Inspection (Alg 1.2)

Simple Equations in 1 Variable: Isolating the Variable (Alg 1.2)

More Difficult Linear Equations in 1 Variable (Alg 1.2)

Graphing a Solution Set on a Number Line (Alg 1.2)

Solving and Graphing Equations in 1 Variable (Alg 1.2)

Solving Problems with Linear Equations in 1 Variable (Alg 1.2)

Linear Inequalities in 1 Variable, Part 1 (Alg 1.2)

Linear Inequalities in 1 Variable, Part 2 (Alg 1.2)



Linear Inequalities in 1 Variable, Part 3 (Alg 1.2)
Review: Equations and Inequalities (Alg 1.2)

PLATO® Algebra 2, Part 1

Graphs and Linear Equations (Alg 2.1)
Solutions of Linear Equations as Ordered Pairs (Alg 2.1)
Graphing a Linear Equation in 2 Variables (Alg 2.1)
Using the Slope and y-Intercept to graph a Line (Alg 2.1)
Identifying Graphs from Their Equations (Alg 2.1)
Review: Graphs (Alg 2.1)

PLATO® Algebra 2, Part 2

Special Equations and Inequalities (Alg 2.2)
Absolute Value, Inequalities, and Interval Notation (Alg 2.2)
Graphing Linear Inequalities in 1 Variable (Alg 2.2)
Graphing with Restrictions on the Variable (Alg 2.2)

M.O.8.2.02 identify proportional relationships in real-world situations, then find and select an appropriate method to determine the solution; justify the reasonableness of the solution.

PLATO® Math Problem Solving

Math Fundamentals
Math Problem Solving: Building a Highway
Math Problem Solving: Smart Shopping
Math Problem Solving: Car Costs
Math Problem Solving: Running a Business

Beginning Algebra

Math Problem Solving: Plan for Fishing Trip
Math Problem Solving: Tunnel through Bald Mountain
Math Problem Solving: Bean-Counting

Advanced Algebra

Math Problem Solving: Building Boats

Geometry and Measurement

Math Problem Solving: Planning a Park
Math Problem Solving: Shelf Space

Probability and Statistics

Math Problem Solving: The Fund Raiser

PLATO® Math Expeditions H

Ratio/Proportion/% H - Ratio/Proportion/%
Solve rates & proportions

PLATO® Math Expeditions I

Ratio/Proportion/% I - Ratio/Proportion/%

PLATO® Algebra 1, Part 1

Basic Number Ideas (Alg 1.1)
Using Basic Number Ideas (Alg 1.1)

Special Topics (Alg 1.1)

Scaling and Proportion, Part 2 (Alg. 1.1)



PLATO® Algebra 1, Part 2

Equations and Inequalities (Alg 1.2)

Solving Problems with Linear Equations in 1 Variable (Alg 1.2)

PLATO® Algebra 2, Part 2

Functions and their Graphs (Alg 2.2)

Solving Problems with Linear Functions (Alg 2.2)

PLATO® Foundational Mathematics

Understanding Ratio and Proportion

Understanding Proportion

Solving Proportions

Solving Ratio, Proportion, and Percent Story Problems

M.O.8.2.03 add and subtract polynomials limited to two variables and positive exponents.

PLATO® Algebra 1, Part 1

Math Sentences (Alg 1.1)

Adding Monomials (Alg 1.1)

Subtracting Monomials (Alg 1.1)

Adding Binomials and Monomials (Alg 1.1)

Subtracting Binomials and Monomials (Alg 1.1)

PLATO® Algebra 1, Part 2

Polynomials and Factoring (Alg 1.2)

Monomial Sum (Alg 1.2)

Monomial Difference (Alg 1.2)

Binomial Sum (Alg 1.2)

Additive Inverse of a Binomial (Alg 1.2)

Binomial Difference (Alg 1.2)

Polynomial Sum (Alg 1.2)

Polynomial Difference (Alg 1.2)

Simplifying Polynomial Expressions (Alg 1.2)

Review: Polynomials and Factoring (Alg 1.2)

M.O.8.2.04 use systems of linear equations to analyze situations and solve problems.

PLATO® Math Problem Solving

Intermediate Algebra

Math Problem Solving: Video Rental

Math Problem Solving: Running a Race

Advanced Algebra

Math Problem Solving: Building Boats

PLATO® Algebra 1, Part 1

Graphing Basics (Alg 1.1)

Solving and Graphing Systems of Equations (Alg 1.1)

Solving Problems with Systems of Linear Equations (Alg 1.1)

PLATO® Algebra 2, Part 1

Linear Systems of Equations and Inequalities (Alg 2.1)

Solving Linear Systems of Equations: Graphs (Alg 2.1)



Solving Linear Systems of Equations: Substitution (Alg 2.1)
Solving Linear Systems of Equations: Addition (Alg 2.1)
Solving Problems with Linear Systems (Alg 2.1)
Review: Linear Systems (Alg 2.1)

M.O.8.2.05 apply inductive and deductive reasoning to write a rule from data in an input/output table, analyze the table and the rule to determine if a functional relationship exists.

PLATO® Algebra 1, Part 1
Introduction to Functions (Alg 1.1)
Functions (Alg 1.1)
Describing Functions with Equations, Tables, and Graphs (Alg 1.1)

PLATO® Algebra 2, Part 2
Functions and their Graphs (Alg 2.2)
Defining a Function with Its Rule (Alg 2.2)
Functions and their Graphs (Alg 2.2)
Finding Values of a Function Using Its Rule (Alg 2.2)
Functions and their Graphs (Alg 2.2)
Equations and Graphs of Functions, Part 1 (Alg 2.2)

M.O.8.2.06 graph linear equations and inequalities within the Cartesian coordinate plane by generating a table of values (with and without technology).

PLATO® Math Problem Solving
Beginning Algebra
Math Problem Solving: Tunnel through Bald Mountain
Intermediate Algebra
Math Problem Solving: Video Rental

PLATO® Algebra 1, Part 1
Graphing Basics (Alg 1.1)
Graphing Linear Equations in 2 Variables (Alg 1.1)
Introduction to Functions (Alg 1.1)
Linear Patterns (Alg 1.1)
Graphs, Slopes, and y-Intercepts (Alg 1.1)

PLATO® Algebra 2, Part 1
Graphs and Linear Equations (Alg 2.1)
Solutions of Linear Equations as Ordered Pairs (Alg 2.1)
Graphing a Linear Equation in 2 Variables (Alg 2.1)
Graphing a Linear Inequality in 2 Variables (Alg 2.1)
Using the Slope and y-Intercept to graph a Line (Alg 2.1)
Identifying Graphs from Their Equations (Alg 2.1)
Review: Graphs (Alg 2.1)

PLATO® Algebra 2, Part 2
Functions and their Graphs (Alg 2.2)
Equations and Graphs of Functions, Part 2 (Alg 2.2)



M.O.8.2.07 formulate and apply a rule to generate an arithmetic, geometric and algebraic pattern.

PLATO® Algebra 1, Part 1
Introduction to Functions (Alg 1.1)
Patterns and Sequences (Alg 1.1)

M.O.8.2.08 determine the slope of a line using a variety of methods including • graphing • change in y over change in x • equation

PLATO® Algebra 1, Part 1
Introduction to Functions (Alg 1.1)
Graphs, Slopes, and y -Intercepts (Alg 1.1)
Equations, Graphs, Slopes, and y -Intercepts (Alg 1.1)

PLATO® Algebra 2, Part 1
Graphs and Linear Equations (Alg 2.1)
Slope of a Line from 2 Points (Alg 2.1)
Using the Slope and y -Intercept to graph a Line (Alg 2.1)
Finding the Slope and y -Intercept from an Equation (Alg 2.1)
Review: Graphs (Alg 2.1)

PLATO® Algebra 2, Part 2
Coordinates and Curves (Alg 2.2)
Calculating the Slope of a Line (Alg 2.2)
Point-Slope and Slope-Intercept Forms of Equations (Alg 2.2)

M.O.8.2.09 represent and solve real-world grade-appropriate problems using multiple strategies and justify solutions.

PLATO® Math Problem Solving
Math Fundamentals
Math Problem Solving: Building a Highway
Math Problem Solving: Smart Shopping
Math Problem Solving: Car Costs
Math Problem Solving: Running a Business

Data Skills
Math Problem Solving: Planning a Playground
Math Problem Solving: Growing Lilies

Beginning Algebra
Math Problem Solving: Plan for Fishing Trip
Math Problem Solving: Tunnel through Bald Mountain
Math Problem Solving: Bean-Counting

Intermediate Algebra
Math Problem Solving: Video Rental
Math Problem Solving: Running a Race

Advanced Algebra
Math Problem Solving: Building Boats

Geometry and Measurement
Math Problem Solving: Planning a Park
Math Problem Solving: Shelf Space



Probability and Statistics
Math Problem Solving: The Fund Raiser

PLATO® Math Expeditions H
Ratio/Proportion/% H - Ratio/Proportion/%
Solve percents

Geometry H - Geometry
Find the perimeter

PLATO® Math Expeditions I
Ratio/Proportion/% I - Ratio/Proportion/%
Solve percents

Geometry I - Geometry
Find the perimeter

PLATO® Algebra 1, Part 1
Basic Number Ideas (Alg 1.1)
Using Basic Number Ideas (Alg 1.1)

Introduction to Functions (Alg 1.1)
Describing Functions with Equations, Tables, and Graphs (Alg 1.1)
Linear Patterns (Alg 1.1)

PLATO® Algebra 2, Part 1
Linear Systems of Equations and Inequalities (Alg 2.1)
Solving Problems with Linear Systems (Alg 2.1)

PLATO® Algebra 2, Part 2
Functions and their Graphs (Alg 2.2)
Equations and Graphs of Functions, Part 2 (Alg 2.2)
Composite Functions (Alg 2.2)
Solving Problems with Linear Functions (Alg 2.2)

PLATO® Foundational Mathematics
Course: Adding and Subtracting Whole Numbers 2: Module: Solving Addition and Subtraction Story Problems

Multiplying Whole Numbers
Solving Multiplication Story Problems

Dividing Whole Numbers
Solving Division Story Problems

Multiplying and Dividing Fractions
Solving Fraction Story Problems

Performing Operations with Decimals
Solving Decimal Story Problems

M.O.8.2.10 identify a real life problem involving change over time; make a prediction as to the outcome; develop, justify, and implement a method to collect, organize, and analyze data; generalize the results to make a conclusion; compare the prediction and the result of the investigation; present the problem using words, graphs, drawings, models, or tables.



PLATO® Math Problem Solving

Data Skills

Math Problem Solving: Planning a Playground

Math Problem Solving: Growing Lilies

Probability and Statistics

Math Problem Solving: Making the Grade

Math Problem Solving: Statistics for Quality

PLATO® Data Skills

Constructing Graphs and Charts

Constructing Histograms

Selecting Graphs and Charts

Standard 3: Geometry

M.O.8.3.1 justify the relationships among corresponding, alternate interior, alternate exterior and vertical angles when parallel lines are cut by a transversal using models, pencil/paper, graphing calculator, and technology.

PLATO® Math Problem Solving

Intermediate Algebra

Math Problem Solving: Video Rental

PLATO® Geometry and Measurement 1

Geometry

Special Angles, Part 2

PLATO® Geometry and Measurement 2

Triangles and Lines

Angles in Pairs

Transitive Properties of Lines

A Sense of Proportion

M.O.8.3.2 classify polyhedrons according to the number and shape of faces; use inductive reasoning to determine the relationship between vertices, faces and edges ($edges + 2 = faces + vertices$).

PLATO® Geometry and Measurement 1

Measurement

Volume

PLATO® Geometry and Measurement 2

Solids and Coordinate Geometry

Prisms

Area and Volume of Cylinders

Area and Volume of Cones

PLATO® Foundational Mathematics

Plane and Solid Figures

Introduction to Solid Figures

M.O.8.3.3 identify, apply, and construct perpendicular and angle bisectors with and without technology) given a real-world situation,.

Inspired solutions for teaching and learning™



PLATO® Geometry and Measurement I
Geometry

Special Angles, Part 1
Special Angles, Part 2

PLATO® Geometry and Measurement 2

Introduction to Geometry
Supplementary and Complementary Angles
Two of a Kind

Triangles and Lines
Transitive Properties of Lines
Not Everything is Created Equal

PLATO® Math Expeditions H

Geometry H - Geometry
Classify points, lines & angles

PLATO® Math Expeditions I

Geometry I - Geometry

PLATO® Foundational Mathematics

Plane and Solid Figures
Lines in a Plane

M.O.8.3.4 create geometric patterns including tiling, art design, tessellations and scaling using transformations (rotations, reflections, translations) and predict results of combining, subdividing, and changing shapes of plane figures and solids.

PLATO® Math Problem Solving
Geometry and Measurement
Math Problem Solving: Planning a Park

PLATO® Geometry and Measurement 2
Transformations, Symmetry, and Area
Translations
Rotations

PLATO® Math Expeditions H
Geometry H - Geometry
Identify congruent & similar

PLATO® Math Expeditions I
Geometry I - Geometry

M.O.8.3.5 create scale models of similar figures using ratio, proportion with pencil/paper and technology and determine scale factor

PLATO® Math Problem Solving
Intermediate Algebra
Math Problem Solving: Video Rental

Geometry and Measurement
Math Problem Solving: Shelf Space

Inspired solutions for teaching and learning™



PLATO® Geometry and Measurement 1
Geometry
Using Geometry

PLATO® Geometry and Measurement 2
Triangles and Lines
Congruent Triangle Problems
Solving Right Triangle Problems
Proportionality
A Sense of Proportion

M.O.8.3.6 make and test a conjecture concerning • regular polygons, • the cross section of a solid such as a cylinder, cone, and pyramid, • the intersection of two or more geometric figures in the plane (e.g., intersection of a circle and a line), and justify the results.

PLATO® Math Problem Solving
Geometry and Measurement
Math Problem Solving: Planning a Park
Math Problem Solving: Shelf Space

PLATO® Geometry and Measurement 1
Measurement
Volume

PLATO® Geometry and Measurement 2
Polygons
Introduction to Polygons
Summing Up Angles
Angles in Regular Polygons

Solids and Coordinate Geometry
Area and Volume of Cylinders

PLATO® Math Expeditions H
Geometry H - Geometry
Find the surface area

PLATO® Math Expeditions I
Geometry I - Geometry

PLATO® Algebra 2, Part 2
Coordinates and Curves (Alg 2.2)
Ellipse (Alg 2.2)
Hyperbola (Alg 2.2)
Equations of Ellipses and Hyperbolas (Alg 2.2)

PLATO® Foundational Mathematics
Plane and Solid Figures
Introduction to Solid Figures

Standard 4: Measurement

M.O.8.4.1 select and apply an appropriate method to solve; justify the method and the reasonableness of the solution of problems involving



volume of • prisms • cylinders • cones • pyramids • spheres given real-world problem solving situations.

PLATO® Math Problem Solving
Geometry and Measurement
Math Problem Solving: Planning a Park
Math Problem Solving: Shelf Space

PLATO® Geometry and Measurement 1
Measurement
Volume
Using Measurement

PLATO® Geometry and Measurement 2
Solids and Coordinate Geometry
Area and Volume of Cylinders
Area and Volume of Cones

PLATO® Math Expeditions H
Geometry H - Geometry
Find the volume

PLATO® Math Expeditions I
Geometry I - Geometry

PLATO® Foundational Mathematics
Using Geometry
Calculating the Volume of Rectangular Prism

M.O.8.4.2 solve problems involving missing measurements in plane and solid geometric figures using formulas and drawings including irregular figures, models or definitions.

PLATO® Math Problem Solving
Beginning Algebra
Math Problem Solving: Plan for Fishing Trip

Intermediate Algebra
Math Problem Solving: Video Rental
Math Problem Solving: Running a Race

Advanced Algebra
Math Problem Solving: Building Boats

PLATO® Geometry and Measurement 1
Geometry
Special Angles, Part 2
Using Geometry

PLATO® Geometry and Measurement 2
Triangles and Lines
Congruent Triangles, Part 1
Congruent Triangles, Part 2
Congruent Triangle Problems
The Sum of the Angles in a Triangle
Solving Right Triangle Problems

Inspired solutions for teaching and learning™



**Proportionality
A Sense of Proportion**

**PLATO® Math Expeditions H
Geometry H - Geometry
Identify geometric shapes**

**PLATO® Math Expeditions I
Geometry I - Geometry**

**PLATO® Algebra I, Part 1
Basic Number Ideas (Alg 1.1)
Using Basic Number Ideas (Alg 1.1)**

**Equations and Formulas (Alg 1.1)
Literal Equations (Alg 1.1)**

**PLATO® Algebra I, Part 2
Equations and Inequalities (Alg 1.2)
Solving Problems with Linear Equations in 1 Variable (Alg 1.2)**

M.O.8.4.3 solve right triangle problems where the existence of triangles is not obvious using the Pythagorean Theorem and indirect measurement in real-world problem solving situations.

**PLATO® Math Problem Solving
Beginning Algebra
Math Problem Solving: Tunnel through Bald Mountain**

**Intermediate Algebra
Math Problem Solving: Running a Race**

**Geometry and Measurement
Math Problem Solving: Shelf Space**

**PLATO® Geometry and Measurement 1
Geometry
The Pythagorean Theorem 1
Using Geometry**

**PLATO® Geometry and Measurement 2
Triangles and Lines
Congruent Triangle Problems
The Pythagorean Theorem 2
Solving Right Triangle Problems**

**Solid and Coordinate Geometry
The Distance Formula**

**PLATO® Algebra I, Part 1
Special Topics (Alg 1.1)
Scaling and Proportion, Part 1 (Alg 1.1)
Scaling and Proportion, Part 2 (Alg. 1.1)**

**PLATO® Algebra 2, Part 2
Coordinates and Curves (Alg 2.2)
Distance between 2 Points (Alg 2.2)**

Inspired solutions for teaching and learning™



Standard 5: Data Analysis and Probability

M.O.8.5.1 determine and explain whether a real-world situation involves permutations or combinations, then use appropriate technology to solve the problem.

PLATO® Data Skills

Constructing Graphs and Charts

Constructing Line Graphs

Constructing Pie Charts

Constructing Histograms

PLATO® Math Expeditions H

Probability/Stats H - Probability/Stats

Find the probability & outcomes

PLATO® Math Expeditions I

Probability/Stats I - Probability/Stats

Find probability & outcomes

PLATO® Algebra 2, Part I

Probability (Alg 2.1)

Multiplication Principle of Counting (Alg 2.1)

Review: Probability (Alg 2.1)

M.O.8.5.2 compare the experimental and theoretical probability of a given situation (including compound probability of a dependent and independent event).

PLATO® Math Problem Solving

Probability and Statistics

Math Problem Solving: The Fund Raiser

PLATO® Math Expeditions H

Probability/Stats H - Probability/Stats

Find the probability & outcomes

PLATO® Math Expeditions I

Probability/Stats I - Probability/Stats

Find probability & outcomes

PLATO® Algebra 2, Part I

Probability (Alg 2.1)

Multiplication Principle of Counting (Alg 2.1)

M.O.8.5.3 create and extrapolate information from multiple-bar graphs, box and whisker plots, and other data displays using appropriate technology.

PLATO® Math Problem Solving

Data Skills

Math Problem Solving: Planning a Playground

Probability and Statistics

Math Problem Solving: Statistics for Quality



PLATO® Data Skills

Reading Graphical Data
Introduction to Bar Graphs
Reading Bar Graphs
Introduction to Flowcharts

Computing Graphical Data
Graphing and Charting
Using Bar Graphs

Reading Complex Charts and Graphs
Reading Complex Flowcharts

Constructing Graphs and Charts
Constructing Line Graphs
Constructing Pie Charts
Constructing Bar Graphs
Constructing Histograms
Selecting Graphs and Charts

PLATO® Math Expeditions H

Graphs H - Graphs
Data from graphs

PLATO® Math Expeditions I

Graphs I - Graphs
Data from graphs

M.O.8.5.4 analyze problem situations, games of chance, and consumer applications using random and non-random samplings to determine probability, make predictions, and identify sources of bias.

PLATO® Math Problem Solving

Data Skills
Math Problem Solving: Planning a Playground
Math Problem Solving: Growing Lilies

Probability and Statistics
Math Problem Solving: The Fund Raiser
Math Problem Solving: Making the Grade
Math Problem Solving: Statistics for Quality

PLATO® Data Skills

Reading Graphical Data
Reading Line Graphs
Reading Bar Graphs

PLATO® Math Expeditions H

Probability/Stats H - Probability/Stats
Find the probability & outcomes

PLATO® Math Expeditions I

Probability/Stats I - Probability/Stats
Find probability & outcomes



PLATO® Algebra 1, Part I

Special Topics (Alg 1.1)

Probability and Possible Outcomes (Alg 1.1)

Probability of an Event (Alg 1.1)

Solving Problems with Probability (Alg 1.1)

PLATO® Algebra 2, Part I

Probability (Alg 2.1)

Chance Experiments and Probability (Alg 2.1)

Determining the Probability of an Event (Alg 2.1)

Review: Probability (Alg 2.1)

M.O.8.5.5 draw inferences, make conjectures and construct convincing arguments involving • different effects that changes in data values have on measures of central tendency • misuses of statistical or numeric information, based on data analysis of same and different sets of data.

PLATO® Math Problem Solving

Data Skills

Math Problem Solving: Growing Lilies

Probability and Statistics

Math Problem Solving: Making the Grade

Math Problem Solving: Statistics for Quality

PLATO® Data Skills

Reading Graphical Data

Reading Line Graphs

Reading Bar Graphs

PLATO® Math Expeditions H

Probability/Stats H - Probability/Stats

Range, median, mode & mean

PLATO® Math Expeditions I

Probability/Stats I - Probability/Stats

Range, median, mode & mean

PLATO® Algebra 1, Part I

Special Topics (Alg 1.1)

Mean, Median, and Mode (Alg 1.1)

Solving Problems with Mean, Median, and Mode (Alg 1.1)