

5-Math MLS

Mathematics

Grade(s) 5th, Duration 1 Year, 1 Credit
Required Course

Course Description

Students will be able to use a place value system understanding to perform operations with multi-digit whole numbers to billions and decimals to thousandths, understand the relationship between fractions and decimals, perform operations and solve problems with fractions and decimals, represent and analyze patterns and relationships, write and interpret numerical expressions, use the four operations to represent and solve problems, classify two and three dimensional geometric shapes, understand and compute volume, graph points on the Cartesian coordinate plane within the first quadrant to solve problems, solve problems involving measurement and conversions within a measurement system, and represent and analyze data.

Scope And Sequence

Timeframe	Unit	Instructional Topics
6 Week(s)	Unit 1: Number Sense and Operations in Base Ten	1. Topic 1: Understand Place Value 2. Topic 2: Add and Subtract Decimals to the Hundredths 3. Topic 3: Fluently Multiply Multi-Digit Whole Numbers
6 Week(s)	Unit 2: Number Sense and Operations in Base Ten (using models)	1. Topics 4 Use Models and Strategies to Multiply Decimals 2. Topic 5: Use models and strategies to divide whole numbers 3. Topic 6 Use Models and Strategies to Divide Decimals
9 Week(s)	Unit 3: Number Sense and Operations in Fractions	1. Topic 7: Use Equivalent Fractions to Add and Subtract Fractions 2. Topic 8: Apply Understanding of Multiplication to Multiply Fractions 3. Topic 9: Apply Understanding of Division to Divide Fractions
6 Week(s)	Unit 4: Geometry and Measurement (volume & converting measurement)	1. Topic 10: Understand Volume Concept 2. Topic 11: Convert Measurements
2 Week(s)	Unit 5: Data and Statistics (Represent and interpret data)	1. Topic 12: Represent and Interpret Data
2 Week(s)	Unit 6: Relationships and Algebraic Thinking (Numerical Expressions)	1. Topic 13: Write and Interpret Numerical Expressions
1 Week(s)	Unit 7 classify two & three dimensional geo shapes	1. Topic 16: Classifying 2/3 D Shapes
1 Week(s)	Unit 8 Graphing points on a Cartesian Coordinate Plane	1. Topic 14 Graph Points on the Coordinate Plane
2 Week(s)	Unit 9 Write and interpret numerical expressions	1. Topic 17: Write and interpret numerical expressions (algebraically)

Course Instructional Resources/Textbook

Teachers manual- Envision Math 2.0 Volume 1 & 2
Student workbooks

Course Details

Unit: Unit 1: Number Sense and Operations in Base Ten

Duration: 6 Week(s)

Unit Description

Students will use place value system understanding to perform operations with multi-digit whole numbers to billions and decimals to thousandths.

Enduring Understandings/Essential Learner Outcomes

Students will be able to:

- Read, write and identify numbers from billions to thousandths using number names, base ten numerals and expanded form.
- Compare two numbers from billions to thousandths using the symbols $<$, $=$, or $>$, and justify the solution.
- Understand that in a multi-digit number, a digit represents $1/10$ times what it would represent in the place to its left.
- Evaluate the value of powers of 10 and understand the relationship to the place value system.
- Round numbers from billions to thousandths place.
- Add and subtract multi-digit whole numbers and decimals to the thousandths place, and justify the solution.
- Multiply multi-digit whole numbers and decimals to the hundredths place, and justify the solution.
- Divide multi-digit whole numbers and decimals to the hundredths place using up to two digit divisors and four digit dividends, and justify the solution.

Academic Vocabulary

exponent
power
base
value
expanded form
thousandths

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equivalent decimals
compatible numbers
associative property
commutative property
compensation
underestimate
overestimate
partial products
variable

Assessment

Students will be assessed through various formatives and summatives given throughout the unit.

Topic: Topic 1: Understand Place Value

Duration: 10 Day(s)

Description

Students will understand place value, know how to add and subtract decimals to the hundredths, and fluently multiply multi-digit whole numbers.

Academic Vocabulary (What terms will students need to know?)

exponent compensation
power underestimate
base overestimate
value partial products
expanded form variable
thousandths
equivalent decimals
compatible numbers
associative property
commutative property

Definition of Mastery

Students will be able to;

- Read, write and identify numbers from billions to thousandths using number names, base ten numerals and expanded form.
- Compare two numbers from billions to thousandths using the symbols $<$, $=$, or $>$, and justify the solution.
- Understand that in a multi-digit number, a digit represents $1/10$ times what it would represent in the place to its left.
- Evaluate the value of powers of 10 and understand the relationship to the place value system.
- Add and subtract multi-digit whole numbers and decimals to the thousandths place, and justify the solution.
- Multiply multi-digit whole numbers and decimals to the hundredths place, and justify the solution.

Learning Targets

Students will use place value system understanding to read, write, and identify numbers from billions to thousandths using number names, base ten numerals and expanded form.

Students will use place value understanding to compare two numbers from billions to thousandths using $<$, $>$, $=$ symbols, and justify their solution.

Students will use place value system understanding to evaluate the powers of 10 and understand the relationship to the place value system.

Students will use place value system understanding to round numbers from billions to thousandths place.

Students will understand the relationship between fractions and decimals to convert decimals to fractions and vice versa.

Students will perform operations and solve problems with fractions and decimals to estimate results of sums, differences, and products to the thousandths.

Students will use place value system understanding to add and subtract multi-digit whole numbers and decimals to the thousandths place, and justify the solution.

Students will use place value system understanding to multiply multi-digit whole numbers and decimals to the hundredths place, and justify the solution.

I can use place value to understand a digit is $1/10$ times as big the digit to its left.

Topic: Topic 2: Add and Subtract Decimals to the Hundredths

Duration: 10 Day(s)

Description

Students will understand place value, know how to add and subtract decimals to the hundredths, and fluently multiply multi-digit whole numbers.

Academic Vocabulary (What terms will students need to know?)

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exponent compensation
power underestimate
base overestimate
value partial products
expanded form variable
thousandths
equivalent decimals
compatible numbers
associative property
commutative property

Definition of Mastery

Students will be able to;

- Read, write and identify numbers from billions to thousandths using number names, base ten numerals and expanded form.
- Compare two numbers from billions to thousandths using the symbols $<$, $=$, or $>$, and justify the solution.
- Understand that in a multi-digit number, a digit represents $1/10$ times what it would represent in the place to its left.
- Evaluate the value of powers of 10 and understand the relationship to the place value system.
- Add and subtract multi-digit whole numbers and decimals to the thousandths place, and justify the solution.
- Multiply multi-digit whole numbers and decimals to the hundredths place, and justify the solution.

Learning Targets

Students will use place value system understanding to read, write, and identify numbers from billions to thousandths using number names, base ten numerals and expanded form.

Students will use place value understanding to compare two numbers from billions to thousandths using $<$, $>$, $=$ symbols, and justify their solution.

Students will use place value system understanding to evaluate the powers of 10 and understand the relationship to the place value system.

Students will use place value system understanding to round numbers from billions to thousandths place.

Students will understand the relationship between fractions and decimals to convert decimals to fractions and vice versa.

Students will perform operations and solve problems with fractions and decimals to estimate results of sums, differences, and products to the thousandths.

Students will use place value system understanding to add and subtract multi-digit whole numbers and decimals to the thousandths place, and justify the solution.

Students will use place value system understanding to multiply multi-digit whole numbers and decimals to the hundredths place, and justify the solution.

I can use place value to understand a digit is $1/10$ times as big the digit to its left.

Topic: Topic 3: Fluently Multiply Multi-Digit Whole Numbers

Duration: 10 Day(s)

Description

Students will understand place value, know how to add and subtract decimals to the hundredths, and fluently multiply multi-digit whole numbers.

Academic Vocabulary (What terms will students need to know?)

exponent compensation
power underestimate
base overestimate
value partial products
expanded form variable
thousandths
equivalent decimals
compatible numbers
associative property
commutative property

Definition of Mastery

Students will be able to;

- Read, write and identify numbers from billions to thousandths using number names, base ten numerals and expanded form.
- Compare two numbers from billions to thousandths using the symbols $<$, $=$, or $>$, and justify the solution.
- Understand that in a multi-digit number, a digit represents $1/10$ times what it would represent in the place to its left.
- Evaluate the value of powers of 10 and understand the relationship to the place value system.

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- Add and subtract multi-digit whole numbers and decimals to the thousandths place, and justify the solution.
- Multiply multi-digit whole numbers and decimals to the hundredths place, and justify the solution.

Learning Targets

Students will use place value system understanding to read, write, and identify numbers from billions to thousandths using number names, base ten numerals and expanded form.

Students will use place value understanding to compare two numbers from billions to thousandths using $<$, $>$, $=$ symbols, and justify their solution.

Students will use place value system understanding to evaluate the powers of 10 and understand the relationship to the place value system.

Students will use place value system understanding to round numbers from billions to thousandths place.

Students will understand the relationship between fractions and decimals to convert decimals to fractions and vice versa.

Students will perform operations and solve problems with fractions and decimals to estimate results of sums, differences, and products to the thousandths.

Students will use place value system understanding to add and subtract multi-digit whole numbers and decimals to the thousandths place, and justify the solution.

Students will use place value system understanding to multiply multi-digit whole numbers and decimals to the hundredths place, and justify the solution.

I can use place value to understand a digit is $\frac{1}{10}$ times as big the digit to its left.

Unit: Unit 2: Number Sense and Operations in Base Ten (using models)

Duration: 6 Week(s)

Unit Description

Students will use place value system understanding to perform operations with multi-digit whole numbers to billions and decimals to thousandths.

Enduring Understandings/Essential Learner Outcomes

Students will be able to multiply and divide multi-digit whole numbers and decimals to the hundredths place, and justify their solution using various models and strategies.

Academic Vocabulary

underestimate
overestimate
product
partial products
dividend
divisor
quotient
partial quotients

Assessment

Students will be assessed through various formatives and summatives given throughout the unit.

Topic: Topics 4 Use Models and Strategies to Multiply Decimals

Duration: 10 Day(s)

Description

Students will use various models and strategies to multiply multi-digit numbers and decimals.

Academic Vocabulary (What terms will students need to know?)

underestimate
overestimate
product
partial products

Definition of Mastery

Students will be able to fluently multiply multi-digit whole numbers.

Students will be able to use models and strategies to multiply decimals and whole numbers.

Learning Targets

I can use place value system understanding to evaluate the value of powers of 10 when multiplying a decimal by a power of 10.

I can perform operations and solve problems by estimating the product of a decimal and a whole number.

I can use place value system understanding to multiply multi-digit whole numbers and decimals.

Topic: Topic 5: Use models and strategies to divide whole numbers

Duration: 10 Day(s)

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Description

Students will be able to use a variety of different models and strategies to divide whole numbers.

Academic Vocabulary (What terms will students need to know?)

estimate
dividend
divisor
quotient
partial quotients

Learning Targets

I can use place value understanding to divide multi-digit whole numbers and decimals.

I can estimate results of quotients with decimals to the thousandths.

I can solve division problems with dividends and divisors that are multiples of ten using basic facts and patterns.

I can solve multi step problems and justify my answer.

Topic: Topic 6 Use Models and Strategies to Divide Decimals

Duration: 10 Day(s)

Description

Students will use various models and strategies to divide decimals.

Academic Vocabulary (What terms will students need to know?)

compatible numbers
dividend
divisor
estimate
multiple
product
quotient
remainder

Learning Targets

I can use place value to divide multi digit numbers and decimals to the hundredths place.

I can estimate results of quotients of decimals to the thousandths.

Unit: Unit 3: Number Sense and Operations in Fractions

Duration: 9 Week(s)

Unit Description

Students will be able to understand the relationship between fractions and decimals, and perform operations and solve problems with fractions and decimals.

Enduring Understandings/Essential Learner Outcomes

Students will be able to:

- Perform operations and solve problems with fractions and decimals.
- Estimate results of sums, differences and products with fractions and decimals to the thousandths.
- Solve problems involving addition and subtraction of fractions and mixed numbers with unlike denominators, and justify the solution.
- Extend the concept of multiplication to multiply a fraction or whole number by a fraction.
- Extend the concept of division to divide a fraction or whole number by a fraction

Academic Vocabulary

benchmark fraction
equivalent fraction
common denominator
mixed number
unit fraction

Assessment

Students will be assessed through various formatives and summatives given throughout the unit.

Topic: Topic 7: Use Equivalent Fractions to Add and Subtract Fractions

Duration: 15 Day(s)

Description

Students will use equivalent fractions to add and subtract fractions.

Academic Vocabulary (What terms will students need to know?)

benchmark fraction
equivalent fraction
common denominator

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Required Course

mixed number
unit fraction

Definition of Mastery

Students will be able to use equivalent fractions to add and subtract fractions, apply an understanding of multiplication to multiply fractions, and apply an understanding of division to divide fractions.

Learning Targets

I can solve problems and perform operations when multiplying fractions.

I can use parts of a whole to express a fraction.

I can understand that parts of a whole can be expressed as a fraction and/or decimal.

I can estimate results of sums, differences, and products with fractions and/or decimals to the thousandths.

I can solve problems involving addition and subtraction of fractions and mixed numbers with unlike denominators.

I can use place value to perform operations to multiply multi-digit whole numbers and decimals to the hundredths place.

I can convert decimals to fractions and fractions to decimals.

I can use operations to solve problems with fractions and decimals by calculating division in many ways.

I can compare and order fractions and or decimals to the thousandths place using the symbols greater than, less than or equal to and justify the solution.

Understand the relationship between fractions and decimals (denominators that are factors of 100).

- Compare and order fractions and/or decimals to the thousandths place using the symbols $>$, $=$ or $<$, and justify the solution.

Topic: Topic 8: Apply Understanding of Multiplication to Multiply Fractions

Duration: 15 Day(s)

Description

Students will apply understanding of multiplication to multiply fractions.

Academic Vocabulary (What terms will students need to know?)

benchmark fraction
equivalent fraction
common denominator
mixed number
unit fraction

Definition of Mastery

Students will be able to use equivalent fractions to add and subtract fractions, apply an understanding of multiplication to multiply fractions, and apply an understanding of division to divide fractions.

Learning Targets

I can solve problems and perform operations when multiplying fractions.

I can use parts of a whole to express a fraction.

I can understand that parts of a whole can be expressed as a fraction and/or decimal.

I can estimate results of sums, differences, and products with fractions and/or decimals to the thousandths.

I can solve problems involving addition and subtraction of fractions and mixed numbers with unlike denominators.

I can use place value to perform operations to multiply multi-digit whole numbers and decimals to the hundredths place.

I can convert decimals to fractions and fractions to decimals.

I can use operations to solve problems with fractions and decimals by calculating division in many ways.

I can compare and order fractions and or decimals to the thousandths place using the symbols greater than, less than or equal to and justify the solution.

Understand the relationship between fractions and decimals (denominators that are factors of 100).

- Compare and order fractions and/or decimals to the thousandths place using the symbols $>$, $=$ or $<$, and justify the solution.

Topic: Topic 9: Apply Understanding of Division to Divide Fractions

Duration: 15 Day(s)

Description

Students will apply understanding of division to divide fractions.

Academic Vocabulary (What terms will students need to know?)

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benchmark fraction
equivalent fraction
common denominator
mixed number
unit fraction

Definition of Mastery

Students will be able to use equivalent fractions to add and subtract fractions, apply an understanding of multiplication to multiply fractions, and apply an understanding of division to divide fractions.

Learning Targets

I can solve problems and perform operations when multiplying fractions.

I can use parts of a whole to express a fraction.

I can understand that parts of a whole can be expressed as a fraction and/or decimal.

I can estimate results of sums, differences, and products with fractions and/or decimals to the thousandths.

I can solve problems involving addition and subtraction of fractions and mixed numbers with unlike denominators.

I can use place value to perform operations to multiply multi-digit whole numbers and decimals to the hundredths place.

I can convert decimals to fractions and fractions to decimals.

I can use operations to solve problems with fractions and decimals by calculating division in many ways.

I can compare and order fractions and or decimals to the thousandths place using the symbols greater than, less than or equal to and justify the solution.

Understand the relationship between fractions and decimals (denominators that are factors of 100).

- Compare and order fractions and/or decimals to the thousandths place using the symbols $>$, $=$ or $<$, and justify the solution.

Unit: Unit 4: Geometry and Measurement (volume & converting measurement)

Duration: 6 Week(s)

Unit Description

Students will be able to classify two- and three- dimensional geometric shapes, understand and compute volume, graph points on the Cartesian coordinate plane within the first quadrant to solve problems, and solve problems involving measurement and conversions within a measurement system.

Enduring Understandings/Essential Learner Outcomes

Students will be able to:

- Understand the concept of volume and recognize that volume is measured in cubic units.
- Apply the formulas $V=l \times w \times h$ and $V= B \times h$ for volume of right rectangular prisms with whole number edge lengths.
- Solve problems involving measurement and conversions within a measurement system.
- Convert measurements of capacity, length and weight, within a give measurement system.
- Solve multi-step problems that require measurement conversions.

Academic Vocabulary

volume
cubic unit
cube
rectangular prism
unit cube
formula
foot
inch
yard
mile
capacity
gallon
quart
pint
cup
fluid ounce
weight
ton
pound
ounce
kilometer
meter
centimeter

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millimeter
liter
millimeter
mass
milligram
gram
kilogram

Assessment

Students will be assessed through various formatives and summatives given throughout the unit.

Topic: Topic 10: Understand Volume Concept

Duration: 30 Day(s)

Description

Students will understand volume concepts.

Academic Vocabulary (What terms will students need to know?)

volume
cubic unit
cube
rectangular prism
unit cube
formula
foot
inch
yard
mile
capacity
gallon
quart
pint
cup
fluid ounce
weight
ton
pound
ounce
kilometer
meter
centimeter
millimeter
liter
millimeter
mass
milligram
gram
kilogram

Definition of Mastery

Students will be able to solve measurement problems with various measurement conversions, and understand and compute volume.

Learning Targets

I can understand and compute volume and recognize that volume is measured in cubic units.

I can apply formulas to solve and compute volume.

I can convert measurements of capacity, length and weight within a given measurement system.

I can solve multi-step problems that involve measurement and require measurement conversions.

Topic: Topic 11: Convert Measurements

Duration: 30 Day(s)

Description

Students will convert measurements and represent and interpret data.

Academic Vocabulary (What terms will students need to know?)

volume
cubic unit
cube
rectangular prism
unit cube

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Grade(s) 5th, Duration 1 Year, 1 Credit
Required Course

formula
foot
inch
yard
mile
capacity
gallon
quart
pint
cup
fluid ounce
weight
ton
pound
ounce
kilometer
meter
centimeter
millimeter
liter
milliliter
mass
milligram
gram
kilogram

Definition of Mastery

Students will be able to solve measurement problems with various measurement conversions, and understand and compute volume.

Learning Targets

I can understand and compute volume and recognize that volume is measured in cubic units.

I can apply formulas to solve and compute volume.

I can convert measurements of capacity, length and weight within a given measurement system.

I can solve multi-step problems that involve measurement and require measurement conversions.

Unit: Unit 5: Data and Statistics (Represent and interpret data)

Duration: 2 Week(s)

Unit Description

Students will be able to represent and analyze data.

Enduring Understandings/Essential Learner Outcomes

Students will be able to:

- Create a line plot to represent a given or generated data set, and analyze the data to answer questions and solve problems, and recognize outliers.

Academic Vocabulary

data
line plot
outlier

Assessment

Students will be assessed through various formatives and summatives given throughout the unit.

Topic: Topic 12: Represent and Interpret Data

Duration: 10 Day(s)

Description

Students will be able to represent and analyze data.

Academic Vocabulary (What terms will students need to know?)

data
line plot
outlier

Definition of Mastery

Students will be able to:

-Read and analyze line plots to answer questions and solve problems.
-Organize and display data in line plot.
-Recognize outliers

Learning Targets

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Required Course

Students will represent and analyze data by creating a line graph to answer questions and solve problems.

Students will create a line plot to represent data and answer questions and solve problems as well as recognize outliers and generating the median.

Unit: Unit 6: Relationships and Algebraic Thinking (Numerical Expressions)

Duration: 2 Week(s)

Unit Description

Students will be able to write and interpret numerical expressions, and use the four operations to represent and solve problems.

Enduring Understandings/Essential Learner Outcomes

Students will be able to:

- Write an interpret numerical expressions.
- Use the four operations to represent and solve multi step problems involving variables, whole numbers, fractions and decimals.
- Translate written expression into algebraic expressions.

Academic Vocabulary

Numerical expression
evaluate
order of operations
parenthesis
brackets
braces
variable
algebraic expression

Assessment

Students will be assessed through various formatives and summatives given throughout the unit.

Topic: Topic 13: Write and Interpret Numerical Expressions

Duration: 10 Day(s)

Description

Students will write and interpret numerical expressions.

Academic Vocabulary (What terms will students need to know?)

numerical expression, evaluate, order of operations, parentheses, brackets, braces.

Definition of Mastery

Students will be able to write and interpret various numerical expressions.

Learning Targets

I can solve various problems using the order of operations by writing, evaluating, and interpreting numeric expressions.

I can represent and analyze patterns and relationships to write a rule to describe or explain a given numeric pattern.

I can use order of operations to represent and solve problems involving variables, whole numbers, fractions, and decimals.

I can translate written expressions into algebraic expressions.

Unit: Unit 7 classify two & three dimensional geo shapes

Duration: 1 Week(s)

Unit Description

Students will be able to classify two and three dimensional geometric shapes.

Enduring Understandings/Essential Learner Outcomes

Students will be able to-

- Understand that attributes belonging to a category of figures also belong to subcategories
- Classify figures in hierarchy based on properties
- Analyze and describe the properties of prisms and pyramids

Academic Vocabulary

area
attributes
base
face
edge
vertex
symmetry

Assessment

Students will be assessed through various formatives and summatives given throughout the unit.

Topic: Topic 16: Classifying 2/3 D Shapes

Duration: 5 Day(s)

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Description

Students will classify two and three dimensional geometric shapes based on their properties.

Academic Vocabulary (What terms will students need to know?)

trapezoid
parallelogram
rectangle
rhombus
square
congruent
parallel
right angle

Definition of Mastery

Students will be able to classify two and three dimensional geometric shapes based on their properties.

Learning Targets

I can classify two and three dimensional geometric shapes based on their properties.

I can analyze and describe the properties of prisms and pyramids.

I can classify figures based on their attributes into categories and subcategories.
Classify two and three dimensional geometric shapes.

Unit: Unit 8 Graphing points on a Cartesian Coordinate Plane

Duration: 1 Week(s)

Unit Description

Students will be able to graph points on a Cartesian Coordinate Plane and analyze the data.

Enduring Understandings/Essential Learner Outcomes

Students will be able to:

- Plot and interpret points in the 1st quadrant of a Cartesian Place
- Identify any point on the Cartesian plane by its ordered pair
- Define both numbers in an ordered pair as the horizontal and vertical distances from the origin

Academic Vocabulary

x axis
y axis
ordered pair
coordinate grid
origin

Assessment

Students will be assessed through various formatives and summatives given throughout the unit.

Topic: Topic 14 Graph Points on the Coordinate Plane

Duration: 5 Day(s)

Description

Students will graph points on the Cartesian coordinate plane and identify any point on the plane by its ordered pair coordinates.

Academic Vocabulary (What terms will students need to know?)

x axis
y axis
origin
ordered pair
coordinate grid

Learning Targets

Students will plot and interpret points in the 1st quadrant of the Cartesian coordinate plane.

Students will identify points on the Cartesian coordinate plane by its ordered pair coordinates as well as identify the first number in the ordered pair is the horizontal distance from the origin and the second number in an ordered pair as the vertical distance from the origin.

Students will represent and analyze patterns and relationships while graphing patterns on cartesian plane.

Unit: Unit 9 Write and interpret numerical expressions

Duration: 2 Week(s)

Unit Description

Students will be able to write and interpret numerical expressions.

Enduring Understandings/Essential Learner Outcomes

Students will be able to:

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- Translate written expressions into algebraic expressions.

Academic Vocabulary

number sequence
corresponding term
variable
operation

Assessment

Students will be assessed through various formatives and summatives given throughout the unit.

Topic: Topic 17: Write and interpret numerical expressions (algebraically)

Duration: 10 Day(s)

Description

Students can translate written expressions into algebraic expressions.

Academic Vocabulary (What terms will students need to know?)

algebraic expression
variable

Definition of Mastery

Students will be able to translate written expressions into algebraic expressions.

Learning Targets

I can translate written expressions into algebraic expressions.

Activities (Lesson Plans)

Unit 1: Number Sense and Operations in Base Ten

Topic 1: Understand Place Value

Lesson 1- Beginning Review

Students will recall/review information they learned from 4th grade as a refresher for topic 1, to use place value understanding and properties of operations to perform multi-digit arithmetic with numbers up to one million.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 1-1 Patterns w/ Exponents and Powers of 10

Students will learn basic facts and place-value patterns can be used to find products when one factor is a multiple of 10, 100, or 1,000; an exponent with 10 as the base can be used to represent powers of 10.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 1-2 Understand Whole-Number Place Value

The students will understand that each digit's place value in a number provides a way to understand the number's value.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 1-3 Decimals to Thousandths

Students will understand that our number system is based on powers of 10. Whenever we get 10 in one place value, we move to the next greater place value.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 1-4 Understand Decimal Place Value

Students will know our number system is based on powers of ten and that digits within decimal numbers have place value. They will also understand that a digit's decimal place value in a number helps determine the value of the number.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 1-5 Compare Decimals

Students will understand that place value can be used to compare and order whole numbers and decimals.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 1-6 Rounding Decimals

Students will understand rounding is a process for finding the multiple of 10, 100, and so on, or of 0.1, 0.01 and so on closest to a given number.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 1-7: Look for and Use Structure

Students will look for and use the structure of the decimal place value system to solve word problems.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Place Value Scoot

Students will move around the room answering 24 questions about place value.

Author: Lindsey Siebert

Shared: Yes

Type: Educator Submitted

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Topic 2: Add and Subtract Decimals to the Hundredths

Topic 2 Beginning Review

Students will review what they know about adding and subtracting decimals to the hundredths.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 2-1: Mental Math

I can use mental math to solve addition and subtraction problems.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 2-2 Estimate Sums and Differences

Students understand a sum or difference can be estimated by replacing numbers with other numbers that are easier to add or subtract mentally.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 2-3 Use Models to Add and Subtract Decimals

Students will understand that grids can be used to add and subtract decimals.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 2-4 Add Decimals

Students will understand that adding multi-digit decimals is similar to adding multi-digit whole numbers.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 2-5 Subtract Decimals

Students will understand that subtracting multi-digit decimals is similar to subtracting multi-digit whole numbers.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 2-6 Add and Subtract Decimals

Students will understand that adding and subtracting decimals is similar to adding and subtracting whole numbers.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 2-7: Model with Math

I can use the math I know to solve word problems.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Topic 3: Fluently Multiply Multi-Digit Whole Numbers

Topic 3 Introduction

Students will review what they know about adding and subtracting multi-digit whole numbers.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 3-1 Multiply Greater Numbers by Powers of 10

Students will use place value patterns and mental math to write the product of whole numbers and a power of 10 by simply annexing the correct number of zero;s to the whole number factor.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 3-2 Estimate Products

Students will understand estimating products is a useful technique to quickly solve mathematical problems and understand the value of numbers used in real-world situations. Students will also understand there is more than one way to estimate a product.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 3-3 Multiply 3-digit by 2-digit

Students will understand multiplying a 3 digit number by a 2 digit number can be accomplished by combining equal groups. Students will also understand that by rounding to the nearest 10 or using compatible numbers will help you estimate with greater accuracy when multiplying with greater numbers.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 3-4 Multiply Whole Numbers w/ Zero's

Students will understand the process for multiplying factors with zeros is always the same regardless of the size of the numbers with zeros. Students will also understand that estimation is a strategy that can be used to check the final product.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 3-5 Multiply Multi-digit Numbers

Students will understand the meaning of multiplication is the same, no matter the size of the numbers. Students will also understand the standard algorithm for multiplying whole numbers is based on properties of operations and can be used to solve problems.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 3-6 Solve Word Problems Using Multiplicatio

Students will understand that using a bar diagram and writing an equation are two strategies that can be used to solve multi-step word problems. Students will also understand that once the problem has been solved, you can represent the problem again using a different strategy to check your answers for reasonableness.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Unit 2: Number Sense and Operations in Base Ten (using models)

5-Math MLS

Mathematics

Grade(s) 5th, Duration 1 Year, 1 Credit
Required Course

Topics 4 Use Models and Strategies to Multiply Decimals

Lesson 4-1 Multiply Decimals by Powers of 10

Students will be able to understand that patterns can be identified and used to multiply decimals by 10, 100, and 1,000. Students will also understand that representations such as symbols, diagrams, and words can help you multiply and communicate mathematical ideas.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 4-2 Estimate Product of Decimal & Whole

Students will understand that they can estimate the product of a decimal and a whole number by using compatible numbers and rounding. Students will also understand if an estimate is an overestimate or an underestimate.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Topic 4 Lesson Opener

Students will review previous skills from 4th grade. Students will understand the standard procedures for estimating and finding products involving decimals.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 4-4 Multiply a Decimal by a Whole Number

Students will understand the steps involved in multiplying a decimal by a whole number are similar to the steps used in multiplying two whole numbers. Students will also know that place value in the factors determines the placement of the decimal point in the product.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 4-6 Multiply decimals using partial product

Students will understand the partial process for multiplying whole numbers can be used for multiplying with decimals.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 4-7 Use Properties to Multiply Decimals

Students will understand Associative and Commutative properties can be used to break apart and multiply two decimals.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 4-8 Use Number Sense to Multiply Decimals

Students will understand thinking about the relative size of the decimals being multiplied can help you determine the relative size of the product, and the location of the decimal point in the product.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 4-9 Multiply Decimals

Students will understand the steps for multiplying decimals are similar to steps for multiplying whole numbers, and place value determines the placement of the decimal point in a product.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Topic 5: Use models and strategies to divide whole numbers

Lesson 5-1 Use patterns and Mental Math to Divide

Students will understand division problems with dividends and divisors that are multiples of ten can be solved using basic facts and patterns. Students will also understand that multiplication can be used to check whether quotients are reasonable.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 5-2 Estimate Quotients with 2 Digit Divisor

Students understand using compatible numbers is one of many estimation strategies that can be used to estimate a quotient. Multiplication can also be used to check whether quotients are reasonable.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 5-4 Use Partial Quotients to Divide

Students will understand dividing with 2 digit divisors is just an extension of the steps for dividing with 1 digit divisors. Students will also understand that estimation and place value can help determine the placement of digits in the quotient.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 5-5 Divide by Multiples of 10

Students will understand that compatible numbers can be used to simplify division problems involving dividing 3 digit dividends by 2 digit multiples of ten and use estimation to check quotients for reasonableness.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 5-6 Use Estimation- First # of Quotient

Students will understand that estimation and place-value understandings can be used to determine where to place the first digit in a quotient.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 5-7 Divide by 2 Digit Divisors

Students understand dividing by 2 digit divisors is an extension of the standard algorithm for dividing with 1 digit divisors.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

5-Math MLS

Mathematics

Grade(s) 5th, Duration 1 Year, 1 Credit
Required Course

Lesson 5-8 Make Sense and Persevere

Students will make sense of problems and think of ways to solve them.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Topic 6 Use Models and Strategies to Divide Decimals

Lesson 6-1 Patterns for Dividing with Decimals

Students will use place value patterns to divide decimals by powers of 10.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 6-2 Estimate Decimal Quotients

Students will use rounding and compatible numbers to estimate quotients with decimals.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 6-Review What You Know

Students will review vocabulary on division.

Students will review whole number operations of addition, subtraction, division, and multiplication.

Students will review rounding decimals and decimal operations.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 6-3 Models to Divide by a 1 Digit Whole

Students will understand that the standard algorithm to divide decimals is an extension of the standard algorithm for dividing whole numbers.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 6-4 Divide by a 1 Digit Whole

Students will understand that the standard algorithm for dividing decimals is an extension of the standard algorithm for dividing whole numbers. When dividing by a whole number place the decimal point in the quotient directly above the decimal point in the dividend.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 6-5 Divide by a 2 Digit Whole Number

Students will understand that an area model uses the inverse relationship between multiplication and division to show dividing a decimal by a 2 digit whole number.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 6-6 Use Number Sense to Divide Decimals

Students will understand that number sense and reasoning can be used to place the decimal point in the quotient when dividing a decimal by a decimal.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 6-7 Divide by a Decimal

Students will understand the standard algorithm for dividing a decimal by a decimal is an extension of the standard algorithm for dividing a decimal by a whole number.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 6-8 Dividing with Decimals

Students will understand when dividing with decimals, it is sometimes necessary to annex zeros to the dividend so you can keep dividing until there is no remainder.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Unit 3: Number Sense and Operations in Fractions

Topic 7: Use Equivalent Fractions to Add and Subtract Fractions

Lesson 7 Review What You Know

Students will recall vocabulary on fractions, comparing fractions, and equivalent fractions.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 7-1 Estimate Sums & Differences of Fraction

Students will understand a number line can be used to determine if estimates are reasonable.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 7-2 Find Common Denominators

Students will understand fractions with unlike denominators can be represented using equivalent fractions with like denominators.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 7-3 Add Fractions with Unlike Denominators

Students will understand fractions with unlike denominators can be added by replacing them with equivalent fractions that have common denominators.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

5-Math MLS

Mathematics

Grade(s) 5th, Duration 1 Year, 1 Credit
Required Course

Lesson 7-4 Subtract Fractions with Unlike Denomina

Students will understand that fractions with unlike denominators can be subtracted by replacing them with equivalent fractions that have common denominators.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 7-5 Add and Subtract Fractions

Students will understand addition and subtraction of fractions may both be needed to solve a problem.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 7-6 Estimate Sums & Differences of Mixed #s

Students will understand sums and differences of mixed numbers can be estimated by rounding to the nearest whole number, or by using benchmark fractions.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 7-7 Use Models to Add Mixed Numbers

Students will understand models can be used to show different ways of adding mixed numbers.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 7-8 Add Mixed Numbers

Students will understand that adding mixed numbers is an extension of adding fractions.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 7-9 Use Models to subtract Mixed Numbers

Students will understand models can be used to show different ways of subtracting mixed numbers.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 7-10 Subtract Mixed Numbers

Students will understand that subtracting mixed numbers is an extension of subtracting fractions.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 7-11 Add & Subtract Mixed Numbers

Students will understand that addition and subtraction of mixed numbers may both be needed to solve the problem.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Topic 8: Apply Understanding of Multiplication to Multiply Fractions

Lesson 8 Review What you Know

Student will review crucial vocabulary and essential basic skills to prepare students for unit 8.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

8-1 Use Models to Multiply Whole #s by a Fraction

Students will use models to show that the product of a whole number and a fraction can be interpreted as repeated addition.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

8-2 Use Models to Multiply A Fraction by a whole

Students will multiply a fraction and a whole number involving multiplication and division.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

8-3 Multiply Fractions and Whole Number

Students will understand there are different methods that can be used to multiply fractions and whole numbers.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

8-4 Use Models to Multiply Two Fractions

Students will use visual models, such as fraction strips, number lines, area models, and bar diagrams, can be used to represent multiplication of a fraction by a fraction.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 8-5 Multiply Two Fractions

Students will find the product of two fractions, multiply the numerators, and then multiply the denominators. Recognize when a product is less than or greater than 1.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 8-6 Area of A Rectangle

Students will use an area model to represent the product of two fractions.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 8-7 Multiply Mixed Numbers

Students will multiply mixed numbers is an extension of multiplying fractions.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 8-8 Multiplication As Scaling

Students will understand the relative size of the factors can be used to determine the relative size of the product.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Topic 9: Apply Understanding of Division to Divide Fractions

5-Math MLS

Mathematics

Grade(s) 5th, Duration 1 Year, 1 Credit
Required Course

Lesson 7 Review What You Know

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Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

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Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

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Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 7-3 Add Fractions with Unlike Denominators

Students will understand fractions with unlike denominators can be added by replacing them with equivalent fractions that have common denominators.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

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Shared: Yes

Type: Educator Submitted

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Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

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Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 7-7 Use Models to Add Mixed Numbers

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Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

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Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

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Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

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Students will understand that subtracting mixed numbers is an extension of subtracting fractions.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 7-11 Add & Subtract Mixed Numbers

Students will understand that addition and subtraction of mixed numbers may both be needed to solve the problem.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 8 Review What you Know

Student will review crucial vocabulary and essential basic skills to prepare students for unit 8.

Author: Tara Taylor

Shared: Yes

Type: Educator Submitted

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Author: Tara Taylor

Shared: Yes

Type: Educator Submitted

8-2 Use Models to Multiply A Fraction by a whole

Students will multiply a fraction and a whole number involving multiplication and division.

Author: Tara Taylor

Shared: Yes

Type: Educator Submitted

8-3 Multiply Fractions and Whole Number

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Author: Tara Taylor

Shared: Yes

Type: Educator Submitted

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Students will use visual models, such as fraction strips, number lines, area models, and bar diagrams, can be used to represent multiplication of a fraction by a fraction.

Author: Tara Taylor

Shared: Yes

Type: Educator Submitted

Lesson 8-5 Multiply Two Fractions

Students will find the product of two fractions, multiply the numerators, and then multiply the denominators. Recognize when a product is less than or greater than 1.

Author: Tara Taylor

Shared: Yes

Type: Educator Submitted

5-Math MLS

Mathematics

Grade(s) 5th, Duration 1 Year, 1 Credit
Required Course

Lesson 8-6 Area of A Rectangle

Students will use an area model to represent the product of two fractions.

Author: Tara Taylor

Shared: Yes

Type: Educator Submitted

Lesson 8-7 Multiply Mixed Numbers

Students will multiply mixed numbers is an extension of multiplying fractions.

Author: Tara Taylor

Shared: Yes, Pending

Type: Educator Submitted

Lesson 8-8 Multiplication As Scaling

Students will understand the relative size of the factors can be used to determine the relative size of the product.

Author: Tara Taylor

Shared: Yes

Type: Educator Submitted

Lesson 9 Review What You Know

Students will review crucial vocabulary, identify the shaded parts of a whole, and find the sum/difference/product of each fraction.

Author: Tara Taylor

Shared: Yes

Type: Educator Submitted

Lesson 9-1 Fractions and Division

Students will understand a fraction can be interpreted as division of the numerator by the denominator.

Author: Tara Taylor

Shared: Yes

Type: Educator Submitted

Lesson 9-2 Fractions & Mixed Numbers as Quotients

Students will show quotients as fractions and mixed numbers.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 9-3 Using Multiplication to Divide

Students will use multiplication to divide a whole number by a unit fraction.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 9-4 Divide Whole Numbers by Unit Fractions

Students will use models to show dividing a whole number by a unit fraction.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 9-5 Divide Unit Frac. by Non-Zero Whole #'s

Students will use models to divide unit fractions by non-zero whole numbers

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 9-6 Divide Whole Numbers and Unit Fractions

Students will use models to divide whole numbers and unit fractions and check their work using multiplication.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 9-7 Solve Problems Using Division

Students can solve multi-step problems involving division of a unit fraction.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Unit 4: Geometry and Measurement (volume & converting measurement)

Topic 10: Understand Volume Concept

Lesson 10-1 Model Volume

Students will find the volume of solid figures.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 10-2 Develop a volume Formula

Students will find the volume of a rectangular prism using a formula.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 10-3 Volume of Prisms

Students will find the volume of prisms in different ways.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 10-4 combine Volumes of Prisms

Students will find the volume of a solid figure that is the combination of two or more rectangular prisms.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Topic 11: Convert Measurements

Lesson 10-1 Model Volume

Students will find the volume of solid figures.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 10-2 Develop a volume Formula

Students will find the volume of a rectangular prism using a formula.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

5-Math MLS

Mathematics

Grade(s) 5th, Duration 1 Year, 1 Credit
Required Course

Lesson 10-3 Volume of Prisms

Students will find the volume of prisms in different ways.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 10-4 combine Volumes of Prisms

Students will find the volume of a solid figure that is the combination of two or more rectangular prisms.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 11-1: Convert Customary Units of Length

The students will convert customary units of length.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 11-2: Convert Customary Units of Capacity

Students will convert customary units of capacity.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 11-3: Convert Customary Units of Weight

The students will convert customary units of weight.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 11-4: Convert Metric Units of Length

The students will convert metric units of length.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 11-5: Convert Metric Units of Capacity

The students will convert metric units of capacity.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 11-6: Convert Metric Units of Mass

The students will convert metric units of mass.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 11-7 Solve Word Problems Measurement Conve

The students will solve real world problems with measurement conversions.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 11-8: Precision

The students will be precise when solving measurement problems.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Unit 5: Data and Statistics (Represent and interpret data)

Topic 12: Represent and Interpret Data

Lesson 12-1 Analyze Line Plots

Students will read and analyze line plots.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 12-2 Making Line Plots

Students will organize and display data in a line plot.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 12-3: Solve Word Problems Using Measurement

The students can solve word problems using data in a line plot.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Unit 6: Relationships and Algebraic Thinking (Numerical Expressions)

Topic 13: Write and Interpret Numerical Expressions

Lesson 13-1: Order of Operations

The students will use the order of operations to evaluate expressions.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 13-2: Evaluate Expressions

The students will evaluate expression with parentheses, brackets and braces.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 13-3: Write Numerical Expressions

The students can write simple expressions that show calculations with numbers.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 13-4: Interpret Numerical Expressions

The students will interpret numerical expressions without evaluating them.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

5-Math MLS

Mathematics

Grade(s) 5th, Duration 1 Year, 1 Credit
Required Course

Unit 7 classify two & three dimensional geo shapes

Topic 16: Classifying 2/3 D Shapes

Lesson 16-1: Classify Triangles

The students will classify triangles by their angles and sides.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 16-2: Classify Quadrilaterals

Students will classify quadrilaterals by their properties.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 16-3: Continue to Classify Quadrilaterals

Students will classify quadrilaterals using a hierarchy.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

dsacda

grewasvfdqwdfc

Author: Lindsey Siebert

Shared: Yes

Type: Educator Submitted

Unit 8 Graphing points on a Cartesian Coordinate Plane

Topic 14 Graph Points on the Coordinate Plane

Lesson 14-1: The Coordinate System

I can locate points on a coordinate grid.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 14-2: Graph Data Using Ordered Pairs

Students will graph points on a coordinate grid.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 14-3: Solve Problems Using Ordered Pairs

Students will solve real world problems by graphing points.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 14-4: Reasoning

Students can use reasoning to solve problems.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Unit 9 Write and interpret numerical expressions

Topic 17: Write and interpret numerical expressions (algebraically)

Lesson 2: Words into Expressions

Students will be able to write words into expressions.

Author: Lyndsey Ferrell

Shared: Yes

Type: Educator Submitted

Lesson 1- Written Expressions to Algebraic

Students can read a written expression and translate it into an algebraic equation.

Author: Lyndsey Ferrell

Shared: Yes, Pending

Type: Educator Submitted

Learning Targets

I can analyze and describe the properties of prisms and pyramids.

I can apply formulas to solve and compute volume.

I can classify figures based on their attributes into categories and subcategories.

Classify two and three dimensional geometric shapes.

I can classify two and three dimensional geometric shapes based on their properties.

I can compare and order fractions and or decimals to the thousandths place using the symbols greater than, less than or equal to and justify the solution.

Understand the relationship between fractions and decimals (denominators that are factors of 100).

- Compare and order fractions and/or decimals to the thousandths place using the symbols $>$, $=$ or $<$, and justify the solution.

I can convert decimals to fractions and fractions to decimals.

I can convert measurements of capacity, length and weight within a given measurement system.

5-Math MLS

Mathematics

Grade(s) 5th, Duration 1 Year, 1 Credit
Required Course

I can estimate results of quotients of decimals to the thousandths.

I can estimate results of quotients with decimals to the thousandths.

I can estimate results of sums, differences, and products with fractions and/or decimals to the thousandths.

I can perform operations and solve problems by estimating the product of a decimal and a whole number.

I can represent and analyze patterns and relationships to write a rule to describe or explain a given numeric pattern.

I can solve multi step problems and justify my answer.

I can solve division problems with dividends and divisors that are multiples of ten using basic facts and patterns.

I can solve multi-step problems that involve measurement and require measurement conversions.

I can solve problems and perform operations when multiplying fractions.

I can solve problems involving addition and subtraction of fractions and mixed numbers with unlike denominators.

I can solve various problems using the order of operations by writing, evaluating, and interpreting numeric expressions.

I can translate written expressions into algebraic expressions.

I can translate written expressions into algebraic expressions.

I can understand and compute volume and recognize that volume is measured in cubic units.

I can understand that parts of a whole can be expressed as a fraction and/or decimal.

I can use operations to solve problems with fractions and decimals by calculating division in many ways.

I can use order of operations to represent and solve problems involving variables, whole numbers, fractions, and decimals.

I can use parts of a whole to express a fraction.

I can use place value system understanding to evaluate the value of powers of 10 when multiplying a decimal by a power of 10.

I can use place value system understanding to multiply multi-digit whole numbers and decimals.

I can use place value to divide multi digit numbers and decimals to the hundredths place.

I can use place value to perform operations to multiply multi-digit whole numbers and decimals to the hundredths place.

I can use place value to understand a digit is $\frac{1}{10}$ times as big the digit to its left.

I can use place value to understand a digit is $\frac{1}{10}$ times as big the digit to its left.

I can use place value understanding to divide multi-digit whole numbers and decimals.

Students will create a line plot to represent data and answer questions and solve problems as well as recognize outliers and generating the median.

Students will identify points on the Cartesian coordinate plane by its ordered pair coordinates as well as identify the first number in the ordered pair is the horizontal distance from the origin and the second number in an ordered pair as the vertical distance from the origin.

Students will perform operations and solve problems with fractions and decimals to estimate results of sums, differences, and products to the thousandths.

Students will perform operations and solve problems with fractions and decimals to estimate results of sums, differences, and products to the thousandths.

Students will plot and interpret points in the 1st quadrant of the Cartesian coordinate plane.

Students will represent and analyze data by creating a line graph to answer questions and solve problems.

Students will represent and analyze patterns and relationships while graphing patters on cartesian plane.

Students will understand the relationship between fractions and decimals to convert decimals to fractions and vise versa.

Students will understand the relationship between fractions and decimals to convert decimals to fractions and vise versa.

5-Math MLS

Mathematics

Grade(s) 5th, Duration 1 Year, 1 Credit

Required Course

Students will use place value system understanding to add and subtract multi-digit whole numbers and decimals to the thousandths place, and justify the solution.

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Students will use place value system understanding to evaluate the powers of 10 and understand the relationship to the place value system.

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Students will use place value system understanding to multiply multi-digit whole numbers and decimals to the hundredths place, and justify the solution.

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Students will use place value system understanding to read, write, and identify numbers from billions to thousandths using number names, base ten numerals and expanded form.

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Students will use place value system understanding to round numbers from billions to thousandths place.

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Students will use place value understanding to compare two numbers from billions to thousandths using $<$, $>$, $=$ symbols, and justify their solution.

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