# Unit Number and Title

**Lesson Title** 

1 WHOLE	NUMBERS	
1.4	Detterner Diette en d Neuelsen Wende	Davis and a sales
L1	Patterns: Digits and Number Words	Review number order
		Review reading and writing numbers
1.0	Dia sa Malasa	Review reading and writing number words
L2	Place Value	Review place value for ones and tens
	O' 1 D' " A 1 I''	Use zero as a placeholder
<u>L3</u>	Single-Digit Addition	Practice addition facts
L4	Single-Digit Subtraction	Practice subtraction facts
<u>L5</u>	Addition Problems	Practice two-digit addition
L6	Subtraction Problems	Practice two-digit subtraction
L7	Numbers on a Number Line	Use mental math to add and subtract
L8	Pattern for Expanded Notation	Practice number order
		Write numbers in expanded notation form
L9	Adding Multi-digit Numbers	Add three-digit numbers
		Add numbers in a column
L10	Subtracting 3-Digit Numbers	Subtract three-digit numbers
L11	Measurement	Identify units of measure
		Measure with a ruler and yardstick
L12	Operation Symbols	Identify operation symbols to solve number sentences
L13	Adding with Carrying	Add two-digit numbers with carrying
L14	Cardinal and Ordinal Numbers	Identify cardinal and ordinal numbers
L15	Standard Measurement for Time	Tell time using a face clock
L16	Calendar Time	Measure time on a calendar
L17	Unit Concept Review 1	Review addition and subtraction
		Review operation symbols
L18	Unit Concept Review 2	Review digits, measurement, and time
L19	Practice: Addition and Subtraction	Review and practice addition with carrying
		Review and practice subtraction with borrowing
2 NUMBER	PATTERNS	
L1	Family of Facts	Create addition and subtraction fact families
	·	Add two and three-digit numbers with and without
L2	Adding Ones, Tens, and Hundreds	carrying
	Subtracting Ones, Tens, and	Subtract two and three-digit numbers without
L3	Hundreds	borrowing
L4	Place Value and Number Words	Identify place value to the hundreds place
L5	Addition with Carrying	Add three-digit numbers with carrying
L6	Skip Counting and Number Words	Practice reading and writing number words
		Practice skip counting
		Add numbers using mental math
	Skip Counting and Addition with	•
L7	Carrying	Find odd and even number patterns
	- · · J	Practice addition with carrying
L8	Fractions	Identify fractions from pictures
		Read and write fractions
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L9	Subtracting with Borrowing	Practice subtraction with borrowing
L10	Shapes	Identify flat and solid shapes
L11	Money	Count coins
		Find the total value of sets of coins
L12	Review: Borrowing	Review and practice subtraction with borrowing
L13	Addition: Checking Answers	Check addition problems
L14	Subtraction: Checking Answers	Check subtraction problems
	Review: Number Order and Place	
L15	Value	Review number order
		Review place value
		Review expanded notation
	Review: Addition and Subtraction	
L16	Facts	Review and practice addition and subtraction facts
3 WHOLE N	JMBERS AND FRACTIONS	
	Fact Families, Mental Math, and	
L1	Addition	Create addition and subtraction fact families
		Practice addition
		Add a column of three numbers, with and without
L2	Column Addition	carrying
L3	Addition: With and Without Carrying	Practice addition with and without carrying
L4	Measurements: Weight and Volume	Identify standard units of measure for weight
		Identify standard units of measure for height
	Fact Family, Place Value, and	
L5	Number Order	Review fact families
		Review number order
		Review place value
L6	Checking Addition Problems	Review and practice checking addition
		Practice checking addition problems with and without
L7	More Checking Addition Problems	carrying
		Subtract with regrouping from the tens and hundreds
L8	Subtraction with Borrowing	place
L9	Number Sentences and Symbols	Use math symbols to solve number sentences
	Subtraction with Borrowing and	Practice checking subtraction problems with and
L10	Checking	without borrowing
L11	Fractions	Identify and write fractions
L12	Fractions - Continued	Identify and write fractions
L13	Addition Practice	Practice addition with carrying
L14	Time: AM and PM	Identify a.m. and p.m. when telling time
	Review: Addition, Subtraction, and	
L15	Money	Review checking addition and subtraction
		Review counting and writing money
		Review fact families
	Review: Story Problems, Lines,	
L16	Shapes, and Measurement	Review lines and shapes
		Review units of measurement for time and distance
		Review story problems

4	Niverbana to Thomas I. Di	Identify whose value to the their
_1	Numbers to Thousands Place	Identify place value to the thousands place
_2	Addition and Skip Counting	Practice addition with sums to the thousands place
	Addition and Only Counting	Review skip counting
_3	Rounding and Estimation	Practice rounding to the tens place
	Transmig and Earning	Use rounding to estimate answers
_4	Subtraction with Borrowing	Practice subtraction with borrowing
	3	Identify standard units of measurement for weight,
.5	Measurement	volume, time, and distance
_6	Number Words and Place Value	Practice writing number words
		Create fact families
		Review place value to the thousands place
.7	Number Patterns	Identify number patterns
		Practice number order
	Addition and Subtraction: Horizontal	
.8	Form	Add and subtract problems written horizontally
.9	Adding and Subtracting Fractions	Add and subtract fractions with like denominators
.0	Adding and Subtracting Practions	Add and subtract fractions with line denominators
_10	Roman Numerals	Identify numbers using the Roman numeral system
_11	Review: Subtraction with Borrowing	Practice subtraction with borrowing
.12	Review: Fractions	Identify fractions
12	review. Fractions	Practice reading and writing fractions
		Tractice reading and writing fractions
.13	Review: Word Problems and Money	Practice solving word problems
.13	Review. Word Problems and Money	Practice counting coins
		Practice counting coins
MEASURE	MENT, SHAPES, AND REVIEW	
	Operation Symbols and Number	
		Use operation symbols to write number sentences
	Operation Symbols and Number	Use operation symbols to write number sentences Review place value and number sense
	Operation Symbols and Number	Use operation symbols to write number sentences
.1	Operation Symbols and Number	Use operation symbols to write number sentences
.1	Operation Symbols and Number Sense	Use operation symbols to write number sentences Review place value and number sense
5 MEASURE _1 _2	Operation Symbols and Number Sense	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying
2	Operation Symbols and Number Sense	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing
2	Operation Symbols and Number Sense  Multi-Digit Addition And Subtraction	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing Identify cardinal and ordinal numbers in whole
2	Operation Symbols and Number Sense  Multi-Digit Addition And Subtraction	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing Identify cardinal and ordinal numbers in whole numbers
2	Operation Symbols and Number Sense  Multi-Digit Addition And Subtraction	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing Identify cardinal and ordinal numbers in whole numbers
2	Operation Symbols and Number Sense  Multi-Digit Addition And Subtraction  Cardinal and Ordinal Numbers	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing Identify cardinal and ordinal numbers in whole numbers Identify cardinal and ordinal numbers in fractions
1 2 3 4	Operation Symbols and Number Sense  Multi-Digit Addition And Subtraction  Cardinal and Ordinal Numbers	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing Identify cardinal and ordinal numbers in whole numbers Identify cardinal and ordinal numbers in fractions Identify place value to the thousands place
.1 .2 .3	Operation Symbols and Number Sense  Multi-Digit Addition And Subtraction  Cardinal and Ordinal Numbers  Number Patterns Using Place Value	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing Identify cardinal and ordinal numbers in whole numbers Identify cardinal and ordinal numbers in fractions  Identify place value to the thousands place Identify number patterns
1 2 3 4	Operation Symbols and Number Sense  Multi-Digit Addition And Subtraction  Cardinal and Ordinal Numbers  Number Patterns Using Place Value	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing Identify cardinal and ordinal numbers in whole numbers Identify cardinal and ordinal numbers in fractions  Identify place value to the thousands place Identify number patterns Identify boiling point of liquid
1 2 3 4	Operation Symbols and Number Sense  Multi-Digit Addition And Subtraction  Cardinal and Ordinal Numbers  Number Patterns Using Place Value  Measuring Temperature	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing  Identify cardinal and ordinal numbers in whole numbers Identify cardinal and ordinal numbers in fractions  Identify place value to the thousands place Identify number patterns Identify boiling point of liquid Identify freezing point of liquid
.1 .2 .3 .4 .5	Operation Symbols and Number Sense  Multi-Digit Addition And Subtraction  Cardinal and Ordinal Numbers  Number Patterns Using Place Value  Measuring Temperature  Operation Symbols	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing  Identify cardinal and ordinal numbers in whole numbers Identify cardinal and ordinal numbers in fractions  Identify place value to the thousands place Identify number patterns Identify boiling point of liquid Identify freezing point of liquid Find information on a graph
.1 .2 .3 .4 .5 .5	Operation Symbols and Number Sense  Multi-Digit Addition And Subtraction  Cardinal and Ordinal Numbers  Number Patterns Using Place Value  Measuring Temperature	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing  Identify cardinal and ordinal numbers in whole numbers Identify cardinal and ordinal numbers in fractions  Identify place value to the thousands place Identify number patterns  Identify boiling point of liquid Identify freezing point of liquid Find information on a graph  Use operation signs to solve number sentences Identify plane and solid shapes
_1 _2 _3 _4 _5 _6 _7	Operation Symbols and Number Sense  Multi-Digit Addition And Subtraction  Cardinal and Ordinal Numbers  Number Patterns Using Place Value  Measuring Temperature  Operation Symbols Shapes and Symmetry	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing  Identify cardinal and ordinal numbers in whole numbers Identify cardinal and ordinal numbers in fractions  Identify place value to the thousands place Identify number patterns Identify boiling point of liquid Identify freezing point of liquid Find information on a graph Use operation signs to solve number sentences Identify lines of symmetry
_1 _2 _3 _4 _5 _6 _7	Operation Symbols and Number Sense  Multi-Digit Addition And Subtraction  Cardinal and Ordinal Numbers  Number Patterns Using Place Value  Measuring Temperature  Operation Symbols Shapes and Symmetry  Rounding and Estimating	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing  Identify cardinal and ordinal numbers in whole numbers Identify cardinal and ordinal numbers in fractions  Identify place value to the thousands place Identify number patterns Identify boiling point of liquid Identify freezing point of liquid Find information on a graph Use operation signs to solve number sentences Identify plane and solid shapes Identify lines of symmetry Use rounding to find estimates
_1	Operation Symbols and Number Sense  Multi-Digit Addition And Subtraction  Cardinal and Ordinal Numbers  Number Patterns Using Place Value  Measuring Temperature  Operation Symbols Shapes and Symmetry	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing  Identify cardinal and ordinal numbers in whole numbers Identify cardinal and ordinal numbers in fractions  Identify place value to the thousands place Identify number patterns Identify boiling point of liquid Identify freezing point of liquid Find information on a graph Use operation signs to solve number sentences Identify lines of symmetry
_1 _2 _3 _4 _5 _6 _7 _8 _9	Operation Symbols and Number Sense  Multi-Digit Addition And Subtraction  Cardinal and Ordinal Numbers  Number Patterns Using Place Value  Measuring Temperature  Operation Symbols Shapes and Symmetry  Rounding and Estimating Finding Perimeter	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing  Identify cardinal and ordinal numbers in whole numbers Identify cardinal and ordinal numbers in fractions  Identify place value to the thousands place Identify number patterns Identify boiling point of liquid Identify freezing point of liquid Find information on a graph Use operation signs to solve number sentences Identify plane and solid shapes Identify lines of symmetry Use rounding to find estimates Find the perimeter of shapes
.1 .2 .3 .4 .5 .6 .7	Operation Symbols and Number Sense  Multi-Digit Addition And Subtraction  Cardinal and Ordinal Numbers  Number Patterns Using Place Value  Measuring Temperature  Operation Symbols Shapes and Symmetry  Rounding and Estimating	Use operation symbols to write number sentences Review place value and number sense  Practice addition with carrying Practice subtraction with borrowing  Identify cardinal and ordinal numbers in whole numbers Identify cardinal and ordinal numbers in fractions  Identify place value to the thousands place Identify number patterns Identify boiling point of liquid Identify freezing point of liquid Find information on a graph Use operation signs to solve number sentences Identify plane and solid shapes Identify lines of symmetry Use rounding to find estimates

L12	Review: Checking Addition	Practice checking addition problems
L13	Review: Checking Subtraction	Practice checking subtraction problems
	Review: Roman Numerals and	
L14	Fractions	Identify and convert Roman numerals
L15	Review: Multiple Concepts	Review the following concepts:
		Number patterns and number order
		Roman numerals
		Addition and subtraction facts
		Measuring money and time
		Rounding and estimation
L16	Review: Story Problems	Practice solving word problems
6 MULTIPL	ICATION, ADDITION, AND SUBTRACTION	
L1	Multi-Digit Addition	Practice multi-digit addition with and without carrying
L2	Skip Counting and Multiplication	Multiply using skip counting
L3	Review: Telling Time	Practice telling time
L4	Review: Subtraction	Practice subtraction with and without borrowing
L5	Perimeter and Area	Find the perimeter and area of shapes
L6	Review: Fractions	Add and subtract fractions
L7	Addition and Equivalent Fractions	Practice addition
	·	Identify equivalent fractions using pictures
	Money Computation and Roman	
L8	Numerals	Add and subtract amounts of money
		Review Roman numerals
L9	Multiplication	Use skip counting to multiply
	-	Memorize multiplication facts for 1's, 2's, and 3's
L10	Lines, Angles, and Temperature	Identify lines and angles
		Identify endpoints and line segments
		Practice reading a thermometer
L11	Review: Addition and Subtraction	Review and practice addition and subtraction
L12	Story Problems	Practice solving story problems
L13	Multiple Concept Review	Review the following concepts:
	-	Fractions
		Shapes
		Even and odd numbers
		Roman numerals
		Place value
L14	Review: Calendar	Review units of time on a calendar
		Find information on a calendar
7 OPERATI	ONS, LIKELIHOOD, AND PROBABILITY	
L1	Review: Place Value	Review place value of multi-digit numbers
L2	Review: Subtraction with Borrowing	Review and practice subtraction with borrowing
		Practice multiplication facts for 1's, 2's, 3's, 5's, and
L3	Multiplication Facts	6's
L4	Measurement	Find perimeter and area
		Practice using standard units of measure
1.5	Dragticing Cubraction with Downside	Proetice authoration including regressing with
L5		Practice subtraction, including regrouping with zeros
L6	Mixed Numbers	Identify mixed numbers Read and write mixed numbers
		Read and write mixed numbers
		Add and subtract mixed numbers

	Review: Expanded Notation and	
L7	Roman Numerals	Write numbers in their expanded form
		Review Roman numerals
L8	Probability and Likelihood	Predict probability and likelihood
<u>L9</u>	Math Facts	Practice math facts
_0	a	Solve number sentences
L10	Symmetry	Identify the line of symmetry in figures
L11	Review: Money	Solve problems using money
L12	Multiplication Facts	Learn the multiplication facts for 7's and 8's
2.2	maniphodiem r doto	Review and memorize multiplication facts for 2's and
		5's
L13	Multiple Concept Review	Review the following concepts:
		Story problems
		Graphs
		Fact families
		Fractions and multiplication
		Lines and angles
		Measurement
		Place value
O MEASUDEME	NT FRACTIONS AND DECIMALS	Tidos Valuo
8 WEASUREWE	NT, FRACTIONS, AND DECIMALS	
L1	Shapes, Measurement, and Addition	Identify flat and solid shapes
L1	Chapes, Measurement, and Addition	Convert and add measurements
		Practice checking addition and subtraction
L2	Time and Measurement	Solve problems using a calendar
	Time and Medadiement	Review number order
		Practice mental math
-	Fractions, Odd and Even Number	Tradition main
L3	Patterns	Review fraction words
	T dittornio	Identify even and odd number patterns
L4	Decimals	Read and write decimals
L5	Money Problems	Solve story problems using money
	mency i resistine	Review and practice estimation and rounding
	Fractions, Place Value, and	The first and process community
L6	Measurement	Write numbers in expanded form
		Practice place value
		Measure to the 1/4 inch using a ruler
		Add mixed numbers
L7	Directions	Identify north, south, east, and west on a grid
	2 ii ddiidhid	Locate points using directions on a grid
		Practice memorizing multiplication facts for 3's and
L8	Multiplication Facts	4's
LO	Waliphoadon Faoto	Practice memorizing multiplication facts for 8's and
		9's
L9	Multiple Concept Practice	Review multiplication facts
	Maniple Concept Fraction	Review fractions
		Review Roman numerals
		Review number relation symbols
L10	Review: Addition With Checking	Practice addition with checking
L11	Word Problems	Solve word problems
	VVOIG I TODIGITIO	Colve Word problems

L12

		Practice finding perimeter and area
9 REVIEW:	MULTIPLE CONCEPTS	
L1	How Numbers Work	Identify number patterns
		Use number symbols to solve number sentences
		Write numbers in expanded form
L2	Math Facts	Practice basic math facts
		Check your own subtraction work
L3	Add/Subtract with Checking	Check your own addition work
-	<u> </u>	Memorize multiplication facts for 1's, 2's, 3's, 4's, and
L4	Multiplication	5's
<u>L4</u> L5	Equivalent Fractions	Identify equivalent fractions
L6	Reading and Writing Fractions	Read and write fractions
L7	Fraction Computation	Add and subtract fractions and mixed numbers
	Measure: Length, Perimeter, and	
L8	Area	Identify customary units of length
		Find the perimeter of a shape
		Find the area of a shape
-	Measure: Money, Time, and	·
L9	Temperature	Identify and count coins
	•	Tell time using a face and digital clock
		Read temperatures on a thermometer
L10	Measure: Weight and Volume	Identify standard units of weight
	ŭ	Identify standard units of volume
L11	Symmetry and Shapes	Place a line of symmetry on pictures
	-, -, -, -, -, -, -, -, -, -, -, -, -, -	Identify lines, and plane and solid shapes
L12	Roman Numerals	Identify Roman numerals
		Convert Arabic and Roman numerals
L13	Likelihood and Graphing	Determine if events are likely, or probable
	3	Graph information on bar, line, picture, and circle
		graphs
L14	Problem Solving	Solve problems written in words
10 BASIC N	IATH REVIEW	
		Review rounding to the tens, hundreds, and
L1	Review: Rounding and Estimation	thousands place
	rtoview rtouriaing and zoumaion	Use rounding to estimate answers
L2	Review: Adding Fractions	Practice adding fractions
L3	Review: Subtracting Fractions	Practice subtracting fractions
<u>L4</u>	Review: Multiplication Facts	Practice multiplication facts from memory
	Review: Mental Math, Graphs,	Tradition maniphoduler radio from memory
L5	Likelihood	Solving number sentences using mental math
20	Lincillodd	Identify information on a circle graph
		Determine likelihood and probability
-	Review: Addition and Subtraction	Determine intellifood and probability
L6	Computation	Identify the parts of addition and subtraction problems
LU	Computation	Practice adding and subtracting
L7	Review: Fractions and Decimals	Identify equivalent fractions from pictures
LI	Neview. I factions and Decimals	
		Identify fractions and decimals

	Review: Add and Subtract Mixed	
L8	Numbers and Fractions	Add and subtract fractions
		Add and subtract mixed numbers
L9	Review: Finding Missing Numbers	Solve problems with missing numbers
		Solve problems with missing number symbols
L10	Review: Shapes and Symmetry	Identify plane and solid shapes
		Identify a line of symmetry
L11	Review: Roman Numerals	Convert Arabic and Roman numerals
L12	Review: Measurement	Identify standard units of measure including:
		Time
		Length
		Weight
		Volume
		Dozens
	Review: Number Symbols and	Solve equations using operation and number relation
L13	Grouping	words
		Solve equations using parentheses to group numbers
L14	Review: Perimeter and Area	Find the area of figures
		Find the perimeter of figures
L15	Review: Problem Solving	Solve problems on the following concepts:
		Addition, subtraction, and multiplication
		Measurement
		Number patterns
		Directions
		Calendar skills
		Cardinal and ordinal numbers
		Fractions

# Unit Number and Title

**Lesson Title** 

and Title		
1 NUMBER	SENSE AND PLACE VALUE	
L1	Place Value to 1,000s	Review digits
		Review place value
L2	Single-Digit Addition	Review single-digit addition
		Practice addition facts
L3	Single-Digit Subtraction	Review subtraction
		Practice subtraction facts
L4	Multi-Digit Addition	Review multi-digit addition with regrouping
L5	Multi-Digit Subtraction	Review multi-digit subtraction with regrouping
L6	Review Place Value to 1,000s	Review place value to the thousands place
		Write numbers in expanded notation
L7	Multiplication Facts	Review the multiplication process
		Practice multiplication facts
L8	Family of Facts	Create addition and subtraction fact families
L9	Telling Time	Review telling time on a face clock
L10	Number Words	Practice writing numbers
		Practice using place value
L11	Patterns	Recognize number patterns
L12	Cardinal and Ordinal Numbers	Identify cardinal and ordinal numbers
		Use mental math to add and subtract
L13	Reading and Writing Fractions	Define numerator and denominator
		Practice reading and writing fractions
L14	Practice Multiplication	Practice multiplication facts for 8's and 9's
L15	Counting Money	Practice counting U.S. money
	<b>5</b> ,	Practice writing amounts of U.S. money
L16	Operations	Review operation signs
	·	Practice solving equations
L17	Review: Numbers	Review cardinal and ordinal numbers
		Review expanded notation
L18	Story Problems	Learn three problem solving strategies
	, , , , , , , , , , , , , , , , , , , ,	Practice solving story problems
2 ROUNDII	NG AND ESTIMATION	3 )
L1	Operations	Practice using operation symbols
LI	Operations	Practice addition, subtraction, and multiplication
		·
		operations
L2	Multiplication Facts: 6-10 and Rev	iew Practice multiplication facts
_		
		Multiply multi-digit numbers by a one digit multiplier
		Identify standard measures of time, money, volume,
L3	Using Standard Measures	and distance
<u>L4</u>	Place Value to 10,000s	Identify place value to the 10,000's place
-		Use relation symbols to compare the values of
L5	Relation Symbols	numbers
L6	Missing Number Equations	Solve missing numbers equations
	Wildowing Hamber Equations	Conto micoling numbers equations

L7	Review: Even and Odd Numbers	Review even and odd numbers and number patterns
L8	Adding and Subtracting Fractions	Identify the parts of a fraction
		Add and subtract fractions with like denominators
L9	Rounding Numbers to 10s	Round numbers to the nearest 10
L10	Estimating Answers to 10s	Use rounding to estimate to the nearest 10
L11	Review: Math Symbols	Review mathematical symbols
	•	Review units of measurement
		Review writing number words
L12	Equivalent Fractions	Find equivalent fractions
L13	Rounding Numbers to 100s	Round numbers to the nearest hundred
L14	Estimating Answers to 100s	Use rounding to estimate to the nearest hundred
	<u> </u>	Solve addition, subtraction, and multiplication
L15	Review: Computation	problems
L16	Review: Bar Graphs and Fractions	Construct a bar graph
	Tromour Zan Grapmo ama maduomo	Solve fraction problems using pictures
		Practice adding and subtracting fractions with like
L17	Review: Fractions	denominators
		donominatoro
3 WHOLE NUMBE	ERS AND FRACTIONS	
L1	Place Value	Read and write numbers to the ten thousands place
		Round numbers to the nearest ten, hundred, and
L2	1,000s	thousands' place
<u>L3</u>	Multiply with Carrying to 10s	Solve multiplication problems that require carrying
	manapiy man canying to rec	Practice solving multiplication problems with and
L4	Multiplication Practice	without carrying
L5	Multi-Digit Addition and Subtraction	Practice regrouping in addition and subtraction
		Solve addition and subtraction problems using
L6	Rounding and Estimating	rounding and estimation
<u>L7</u>	Fractions Equal to Whole Numbers	Identify fractions with a value of one or more than one
		Estimate sums and differences to the thousand's
L8	Estimate Answers to 1,000s	place
L9	Polation Symbols	Compare the value of numbers using relation symbols
L10	Relation Symbols Fractions	Compare the value of numbers using relation symbols  Add and subtract fractions with like denominators
LIU	Fractions	
1.4.4	Add and Cubtract to 10,000	Add and subtract using regrouping to the ten
L11	Add and Subtract to 10,000s	thousand's place
1.40	Ob sale Varia Americana	Practice checking your own work when adding and
L12	Check Your Answers	subtracting Malana distributions
L13	Equivalent Fractions	Make equivalent fractions
		Use cross-multiplication to check for equivalent
		fractions
		Read and write numbers to the hundred thousand's
L14	Learn Numbers to 100,000s	place
		Solve equations that contain a variable
L15	Equations	Solve equations that contain a variable
	·	
L15 L16 L17	Reading and Solving Story Problems Line Graphs	

4 LINES AND	SHAPES	
L1	Plane and Solid Shapes	Identify plane and solid shapes
L2	Practice Addition and Subtraction	Regroup numbers that have a zero in the minuend
		Practice addition and subtraction with regrouping
		Review rounding and place value to the ten
L3	Place Value and Rounding	thousands' place
L4	Multiply with Carrying to 100s	Learn the properties of multiplication
		Practice multiplying with regrouping
	Lines, Segments, End Points, Rays,	
L5	Angles	Identify lines and line segments
		Identify end points, rays, and angles
L5b	Lines, Directions, and Maps	Identify directions using a compass rose
		Measure distances on a map
L6	Review: Plane and Solid Shapes	Review and identify plane and solid shapes
L7	Fractions	Identify equivalent, proper, and improper fractions
L8	Missing Number Problems	Solve missing number equations
	Review: Operation and Relation	Solve equations using the proper operation and
L9	Symbols	relation symbols
	Review: Expanded Notation and	
L10	Estimation	Write numbers in expanded notation
		Estimate sums and differences using rounding
L11	Review: Fractions and Place Value	Review fractions and place value
5 DIVISION A	ND MEASUREMENT	
L1	Introduction to Division	Divide sets into equal groups
	mili oddollom to Division	Make fact families using division facts
L2	Multiplication	Multiply by one-digit multipliers
<u>L3</u>	Addition and Subtraction	Practice addition and subtraction
<u>L4</u>	Review: Time and Number Sense	Review place value and writing numbers
		Review telling time
		Review relation signs
L5	Linear Measurement	Identify standard linear units of measurement
	Capacity (Dry and Liquid	Identify standard units of measurement for dry and
L6	Measurement)	liquid capacity
L7	Division Facts	Practice memorizing division facts
L8	Review: Multiplication	Multiply to the ten thousands' place
L9	Reading a Calendar	Find information on a calendar
	<b>3</b>	Learn and use the formula for finding perimeter and
L10	Perimeter and Area	area
L11	Finding Perimeter and Are	Practice finding perimeter and area
L12	Missing Number Problems	Practice solving equations with missing numbers
L13	Division Practice	Practice solving division problems
L14	Roman Numerals	Convert Arabic numbers to Roman numerals
		Practice regrouping in addition, subtraction, and
L15	Review: Regrouping	multiplication
L16	Patterns	Identify number patterns
	ATION AND FRACTIONS	
L1	Prime and Composite Numbers	Identify prime and composite numbers
L2	Multiples	Identify multiples and factors

L3	Division with Remainders	Solve division problems with remainders
L4	Equations and Grouping	Review missing number problems
		Use grouping to solve missing number problems
		Identify proper and improper fractions using a number
L5	Proper and Improper Fractions	line
L6	Multiplication Facts For 11 and 12	Practice multiplication facts for 11's and 12's
L7	Fractions and Mixed Numbers	Read and write mixed numbers
		Add and subtract mixed numbers
	Review: Division and Roman	
L8	Numerals	Practice using Roman numerals
		Practice solving division with remainder problems
L9	Measurements	Identify standard units of measure for length
		Identify standard units of measure for weight
		Identify standard units of measure for capacity
L10	Equivalent Fractions	Identify equivalent fractions
		Review lines and line segments
'		Round numbers to the nearest ten, hundred, and
L11	Review: Rounding and Shapes	thousand
		Review plane shapes
L12	Factors and Multiples	Identify factors and multiples
L13	Problem Solving with Equations	Solve story problems using missing number equations
7 FRACTIO	NS AND PATTERNS	
L1	Multiplication and Division	Multiply with two-digit multipliers
	·	Review division with remainders
L2	Factors, Multiples, and Variables	Review prime and composite numbers
	·	Review factors and multiples
		Review relation signs
		Review variables
L3	Fractions	Identify proper and improper fractions using graphics
L3	Multiplication and Fractions	Solve two-digit multiplication problems
L4	Multiplication and Fractions	Simplify fractions
L5	Average and Number Rules	Determine the average of a set of numbers
LJ	Review: Measurement and Place	Review standard units of measure for length, weight,
L6	Value	and volume
L7	Fractions	Add, subtract, and simplify fractions
L8	Missing Number Problems	Solve equations containing parentheses
	Missing Number Froblems	Round numbers to the nearest ten, hundred, and
L9	Rounding Numbers and Place Value	
	<u> </u>	
L10	Review: Shapes, Perimeter, and Are	a Review plane and solid shapes
	·	Review lines and angles
		Find the perimeter and area of shapes
L11	Fractions and Patterns	Find number patterns
	-	Convert mixed numbers to improper fractions
L12	Practice: Operations and Money	Add and subtract amounts of money
		Use decimal points and dollar signs properly
	Review: Cardinal and Ordinal	
L13	Numbers	Practice using cardinal and ordinal numbers

8 DIVISION	AND FRACTIONS	
L1	Factoring and Place Value	Identify factors and multiples
		Identify prime and composite numbers
		Multiply two and three-digit numbers by a two-digit
L2	Review: Two-Digit Multiplication	multiplier
		Identify mixed numbers, proper and improper
L3	Fractions	fractions
		Add, subtract, and simplify fractions
<u>L4</u>	Division	Review and practice division with remainders
L5	Fractions	Find equivalent fractions
		Identify smallest common multiples
		Add and subtract fractions with unlike denominators
L6	Missing Number Problems	Use missing number equations to solve problems
L7	Multiplication	Multiply by one-digit and two-digit multipliers
		Solve multi-digit division problems with and without
L8	Division	remainders
L9	The Metric System	Identify metric units of measurement
L10	Fractions	Identify common denominators of fractions
		Find equivalent fractions
		Add and subtract fractions with unlike denominators
L11	Review: Time	Tell time on a face clock and a digital clock
L12	Review: Operations and Rounding	Review and practice computation
		Review and practice rounding
	Review: Roman Numerals,	
L13	Measurement, and Symbols	Practice using Roman numerals
		Identify standard units of measure
		Solve equations through the use of relation symbols
9 DECIMAL	S AND FRACTIONS	
L1	Decimals	Read and write decimal numbers
		Calculate with decimal numbers
L2	Money	Practice adding and subtracting amounts of money
L3	Multiplication of Whole Numbers	Practice multiplying by two-digit multipliers
<u>L4</u>	Ordered Pairs	Use ordered pairs to find locations on a grid
 L5	Division and Averages	Review and practice division by one-digit divisors
		Review and practice finding averages
L6	Add and Subtract Decimals	Add and subtract decimals
L6	Add and Subtract Decimals  Fractions with Different	Add and subtract decimals
L6 L7		Add and subtract decimals  Find equivalent fractions
	Fractions with Different	
L7	Fractions with Different Denominators	Find equivalent fractions  Add and subtract fractions with unlike denominators
	Fractions with Different	Find equivalent fractions  Add and subtract fractions with unlike denominators  Cross-multiply to find equivalent fractions
L7	Fractions with Different Denominators  Equivalent Fractions and Decimals	Find equivalent fractions  Add and subtract fractions with unlike denominators  Cross-multiply to find equivalent fractions  Review place value of decimals
L7 L8 L9	Fractions with Different Denominators  Equivalent Fractions and Decimals  Multiply and Divide	Find equivalent fractions  Add and subtract fractions with unlike denominators  Cross-multiply to find equivalent fractions  Review place value of decimals  Practice multiplication and division
L7	Fractions with Different Denominators  Equivalent Fractions and Decimals	Find equivalent fractions  Add and subtract fractions with unlike denominators  Cross-multiply to find equivalent fractions  Review place value of decimals

L12	Review: Fractions	Review addition and subtraction of fractions Review finding equivalent fractions Review proper and improper fractions
		Review mixed numbers
L13	Review	Review metric units of measurement
		Review perimeter and area
		Review Roman numerals
		Practice solving equations
10 GRAPHII	NG AND REVIEW	
	Data Collection and Random	
L1	Sampling	Define random sampling
	, -	Define prediction
L2	Graphs	Graph data on line and bar graphs
		Graph data on circle and picture graphs
		Practice the four basic operations: addition,
L3	Whole Numbers	subtraction, multiplication, and division
		Check multiplication and division problems
L4	Decimal Numbers	Review reading and writing decimal numbers
		Review computation with decimals
L5	Problem Solving with Fractions	Solve story problems using fractions
L6	Fractions	Add and subtract fractions
		Identify proper and improper fractions
		Simplify fractions
		Find common denominators
L7	Sizes, Shapes, and Measurements	Identify plane and solid shapes
L8	Word Problems and Equations	Practice solving word problems
LO	Word Froblems and Equations	Practice solving word problems  Practice solving equations
		<b>3</b> - 1

Unit Number and Title

**Lesson Title** 

1 NUMBER	SENSE AND FRACTIONS	
		Review the four basic operations of addition,
L1	Operations	subtraction, multiplication, and division
L2	Place Value and Large Numbers	Review place value
	· ·	Read and write numbers to the millions place
L3	Fractions	Identify fractions using graphics
L4	Fractions - Words	Review how to read and write fractions
L5	Operations with Fractions	Add and subtract fractions with like denominators
L6	Equivalent Fractions	Identify equivalent fractions
	·	Use cross-multiplication to identify equivalent
L7	Test for Equivalent Fractions	fractions
L8	Working with Numbers	Review odd and even numbers
	<b>G</b>	Identify prime and composite numbers
L9	Mathematical Operations	Solve equations using grouping
-	,	Compare numbers using the greater than and less
L10	Comparing Numbers	than symbols
L11	Comparing Numbers Continued	Practice comparing the values of large numbers
L12	Expanded Numbers	Write numbers in their expanded forms
L13	Rounding Numbers	Round numbers to the nearest tens place
	ŭ	Round numbers to the nearest hundreds place
		Round numbers to the nearest thousand and ten
L14	Rounding to 1,000s	thousand
L15	Estimation	Estimate sums and differences using rounding
L16	Estimation of Multiplication Problem	s Estimate multiplication products using rounding
2 FRACTIO	NS AND MULTIPLICATION	
L1	Multiply with Two-Digit Multipliers	Multiply numbers by two-digit multipliers
	D D I.	
L2	Division Problems	Solve division problems with and without remainders
L3	Factors and Multiples	Identify factors and multiples
		Identify proper and improper fractions and mixed
L4	Fractions	numbers
		Convert improper fractions to whole or mixed
		numbers
L5	Simplifying a Fraction	Simplify fractions to lowest terms
		Add and subtract fractions and mixed numbers with
L6	Add and Subtract Fractions	like denominators
L7	Subtract Mixed Numbers	Subtract mixed numbers with like denominators
L8	Shapes	Identify plane shapes and polygons
L9	Solids	Identify solid shapes
L10	Angles and Real-Life Shapes	Identify line segments and angles
L11	Drill: Add, Subtract, and Multiply	Practice memory and speed of basic math facts
L12	Multiplication Facts: The 13s	Practice multiplication facts for the 13s times table

L13	Multiplication Facts: The 14s	Practice multiplication facts for the 14s times table
L14	Multiplication Facts: The 15s	Practice multiplication facts for the 15s times table
L15	Drill: Divide	Practice solving division problems
L16	Families of Facts	Make addition and subtraction fact families
	Family of Facts: Multiplication and	
L17	Division	Make multiplication and division fact families
L18	Mathematics Symbols	Review operation, relation, and grouping symbols
	,	, , , , , , , , , , , , , , , , , , , ,
L19	Practice Reading Symbols	Solve equations using operation and relation symbols
3 DIVISION, AVE	RAGING, POLYGONS	
		Solve division problems using the short division
<u>L1</u>	Introduction to Short Division	method
L2	Short Division Practice	Practice the short division method
		Use three different division symbols when solving
L3	Division Symbols	division problems
	Adding/Subtracting with Unlike	
L4	Denominators	Find common denominators
		Add and subtract fractions with unlike denominators
		Practice adding and subtracting fractions with unlike
L5	More Adding/Subtracting of Fractions	
L6	Estimation	Estimate solutions to story problems
L7	Averaging Numbers	Find the average of a set of numbers
L8	Writing A Number Sentence	Write number sentences to solve story problems
L9	Properties of Addition	Identify the zero property of addition
		Identify the order property of addition
		Identify the grouping property of addition
	Practice	Practice addition, subtraction, and multiplication
L10	Adding/Subtracting/Multiplying	computation
L11	Perimeter of Polygons	Find the perimeter of polygons
L12	Area of Squares and Rectangles	Find the area of squares and rectangles
L13	Area of Polygons	Find the area of polygons
4 GEOMETRY, D	ECIMALS, MULTIPLICATION	
L1	Lines	Identify five different types of lines
L2	Protractor Measurement	Define protractor
		Identify three types of angles
L3	Figures	Identify symmetry in figures
	•	Categorize similar, congruent, and incongruent
		shapes
L4	Triangles	Identify equilateral, scalene, and isosceles triangles
L5	Circles	Find the perimeter and area of shapes
		Find the diameter and radius of a circle
L6	Roman Numerals	Convert Arabic numbers to Roman numerals
L7	Decimals	Identify the place value of decimal numbers
L8	Writing Decimals Two Ways	Write decimals as fractions and mixed numbers
<u>L9</u>	Multiplication Properties	Identify the properties of multiplication
L10	Solving Multiplication Problems	Practice solving multiplication problems
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	Solving Multiplication Problems	
L11	Continued	Practice multiplication computation
1.40		
L12	More Solving Multiplication Problems	Solve story problems using multiplication
L13	Solving Division Problems	Find divisors using divisibility rules
	10	Solve multiplication and division problems using a
L14	Multiplication and Short Division	calculator
5 MULTIPLICAT	TION, MEASUREMENT, AND FRACTIO	NS
L1	Multiply and Divide by 10,100,1000	Multiply and divide by 10 and 100
	Operations by 10,100,1000	
L2	(Continued)	Multiply and divide by 10, 100, and 1,000
L3	Multiplying Two-Digit Numbers	Multiply by two-digit multipliers
L4	Multiplying Three-Digit Numbers	Multiply by three-digit multipliers
		Measure length, width, and capacity using customary
L5	Measurement	units of measure
L6	Simplifying Measurement Problems	Add and subtract using units of measure
L7	Measurement of Time	Measure time using standard units of measure
L8	Review	Review number sense
		Review measurement
		Review fractions
L9	Review (Continued)	Review basic operations
	,	Review geometry
		Review measurement
		Review fractions
L10	Formulas	Use a formula to calculate distance
I 11	Subtracting Mixed Numbers	Subtract tractions from whole numbers
L11	Subtracting Mixed Numbers	Subtract fractions from whole numbers
	<u>_</u>	
L11 L12	Subtracting Mixed Numbers  Subtracting Mixed Number Problems	
L12	Subtracting Mixed Number Problems	Practice subtracting mixed numbers
	<u>_</u>	Practice subtracting mixed numbers  Solve division problems using long and short division
L12 L13	Subtracting Mixed Number Problems  Solving Division Problems	Practice subtracting mixed numbers  Solve division problems using long and short division  Practice division using both the long and short
L12 L13 L14	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division	Practice subtracting mixed numbers  Solve division problems using long and short division
L12 L13 L14 6 PLACE VALU	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS	Practice subtracting mixed numbers  Solve division problems using long and short division  Practice division using both the long and short methods
L12 L13 L14	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division	Practice subtracting mixed numbers  Solve division problems using long and short division  Practice division using both the long and short
L12 L13 L14 6 PLACE VALU	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS  Multiplication of Fractions	Practice subtracting mixed numbers  Solve division problems using long and short division  Practice division using both the long and short methods  Multiply fractions
L12 L13 L14 6 PLACE VALU L1	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS  Multiplication of Fractions  Simplifying Multiplication by Fractions	Practice subtracting mixed numbers  Solve division problems using long and short division Practice division using both the long and short methods  Multiply fractions  Simplify problems before multiplying
L12 L13 L14 6 PLACE VALU L1 L2 L3	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS  Multiplication of Fractions  Simplifying Multiplication by Fractions Place Value	Practice subtracting mixed numbers  Solve division problems using long and short division  Practice division using both the long and short methods  Multiply fractions  Simplify problems before multiplying Identify the place value of decimals
L12 L13 L14 6 PLACE VALU L1 L2 L3 L4	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS  Multiplication of Fractions  Simplifying Multiplication by Fractions Place Value Place Value Words	Practice subtracting mixed numbers  Solve division problems using long and short division  Practice division using both the long and short methods  Multiply fractions  Simplify problems before multiplying Identify the place value of decimals  Read and write decimal numbers
L12 L13 L14 6 PLACE VALU L1 L2 L3 L4 L5	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS  Multiplication of Fractions  Simplifying Multiplication by Fractions Place Value Place Value Words Decimal Numbers	Practice subtracting mixed numbers  Solve division problems using long and short division  Practice division using both the long and short methods  Multiply fractions  Simplify problems before multiplying Identify the place value of decimals Read and write decimal numbers  Practice reading decimals
L12 L13 L14 6 PLACE VALU L1 L2 L3 L4 L5 L6	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS  Multiplication of Fractions  Simplifying Multiplication by Fractions Place Value Place Value Words Decimal Numbers  Writing Decimal Numbers	Practice subtracting mixed numbers  Solve division problems using long and short division Practice division using both the long and short methods  Multiply fractions  Simplify problems before multiplying Identify the place value of decimals Read and write decimal numbers Practice reading decimals Practice writing decimal numbers
L12 L13 L14 6 PLACE VALU L1 L2 L3 L4 L5	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS  Multiplication of Fractions  Simplifying Multiplication by Fractions Place Value Place Value Words Decimal Numbers	Practice subtracting mixed numbers  Solve division problems using long and short division Practice division using both the long and short methods  Multiply fractions  Simplify problems before multiplying Identify the place value of decimals Read and write decimal numbers Practice reading decimals  Practice writing decimal numbers Identify odd, even, prime, and composite numbers
L12 L13 L14 6 PLACE VALU L1 L2 L3 L4 L5 L6	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS  Multiplication of Fractions  Simplifying Multiplication by Fractions Place Value Place Value Words Decimal Numbers  Writing Decimal Numbers	Practice subtracting mixed numbers  Solve division problems using long and short division Practice division using both the long and short methods  Multiply fractions  Simplify problems before multiplying Identify the place value of decimals Read and write decimal numbers Practice reading decimals Practice writing decimal numbers Identify odd, even, prime, and composite numbers Practice fractions
L12 L13 L14 6 PLACE VALU L1 L2 L3 L4 L5 L6	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS  Multiplication of Fractions  Simplifying Multiplication by Fractions Place Value Place Value Words Decimal Numbers  Writing Decimal Numbers	Practice subtracting mixed numbers  Solve division problems using long and short division  Practice division using both the long and short methods  Multiply fractions  Simplify problems before multiplying Identify the place value of decimals Read and write decimal numbers  Practice reading decimals  Practice writing decimal numbers  Identify odd, even, prime, and composite numbers  Practice fractions Identify types of lines
L12 L13 L14 6 PLACE VALU L1 L2 L3 L4 L5 L6	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS  Multiplication of Fractions  Simplifying Multiplication by Fractions Place Value Place Value Words Decimal Numbers  Writing Decimal Numbers	Practice subtracting mixed numbers  Solve division problems using long and short division Practice division using both the long and short methods  Multiply fractions  Simplify problems before multiplying Identify the place value of decimals Read and write decimal numbers Practice reading decimals Practice writing decimal numbers Identify odd, even, prime, and composite numbers Practice fractions
L12 L13 L14 6 PLACE VALU L1 L2 L3 L4 L5 L6	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS  Multiplication of Fractions  Simplifying Multiplication by Fractions Place Value Place Value Words Decimal Numbers  Writing Decimal Numbers	Practice subtracting mixed numbers  Solve division problems using long and short division  Practice division using both the long and short methods  Multiply fractions  Simplify problems before multiplying Identify the place value of decimals Read and write decimal numbers  Practice reading decimals  Practice writing decimal numbers  Identify odd, even, prime, and composite numbers  Practice fractions Identify types of lines
L12 L13 L14 6 PLACE VALU L1 L2 L3 L4 L5 L6	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS  Multiplication of Fractions  Simplifying Multiplication by Fractions  Place Value  Place Value Words  Decimal Numbers  Writing Decimal Numbers  Review	Practice subtracting mixed numbers  Solve division problems using long and short division Practice division using both the long and short methods  Multiply fractions  Simplify problems before multiplying Identify the place value of decimals Read and write decimal numbers Practice reading decimals  Practice writing decimal numbers Identify odd, even, prime, and composite numbers Practice fractions Identify types of lines Solve missing number problems Practice basic computation skills
L12 L13 L14 6 PLACE VALU L1 L2 L3 L4 L5 L6 L7	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS  Multiplication of Fractions  Simplifying Multiplication by Fractions Place Value Place Value Words Decimal Numbers  Writing Decimal Numbers	Practice subtracting mixed numbers  Solve division problems using long and short division Practice division using both the long and short methods  Multiply fractions  Simplify problems before multiplying Identify the place value of decimals Read and write decimal numbers Practice reading decimals Practice writing decimal numbers Identify odd, even, prime, and composite numbers Practice fractions Identify types of lines Solve missing number problems Practice basic computation skills Multiply by whole numbers
L12 L13 L14 6 PLACE VALU L1 L2 L3 L4 L5 L6 L7	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS  Multiplication of Fractions  Simplifying Multiplication by Fractions Place Value Place Value Words Decimal Numbers Writing Decimal Numbers Review  Multiplication by Whole Numbers	Practice subtracting mixed numbers  Solve division problems using long and short division Practice division using both the long and short methods  Multiply fractions  Simplify problems before multiplying Identify the place value of decimals Read and write decimal numbers Practice reading decimals Practice writing decimal numbers Identify odd, even, prime, and composite numbers Practice fractions Identify types of lines Solve missing number problems Practice basic computation skills Multiply by whole numbers Memory practice of multiplication facts
L12 L13 L14 6 PLACE VALU L1 L2 L3 L4 L5 L6 L7	Subtracting Mixed Number Problems  Solving Division Problems  Long and Short Division  E, FRACTIONS, DECIMALS  Multiplication of Fractions  Simplifying Multiplication by Fractions  Place Value  Place Value Words  Decimal Numbers  Writing Decimal Numbers  Review	Practice subtracting mixed numbers  Solve division problems using long and short division Practice division using both the long and short methods  Multiply fractions  Simplify problems before multiplying Identify the place value of decimals Read and write decimal numbers Practice reading decimals Practice writing decimal numbers Identify odd, even, prime, and composite numbers Practice fractions Identify types of lines Solve missing number problems Practice basic computation skills Multiply by whole numbers

L11	Adding Decimals	Practice adding decimals Identify how zero affects the value of decimals
L12	Adding Decimals Continued	Add columns of decimal numbers
L13	Subtracting Decimals	Subtract decimal numbers
L14	Subtracting Decimals Continued	Practice addition and subtraction of decimals
L15	Multiplication of Decimals	Multiply decimal numbers
	ND METRIC SYSTEM	manpy accimal nambers
L1	Dividing with Two Digits	Solve division problems with a two-digit divisor
L2	Working Division with Two Digits	Practice division with two-digit divisors
L3	Fractions	Review reading and writing fractions
L4	Fractions-Proper and Improper	Review and identify proper and improper fractions
L5	Reducing Fractions	Review and practice reducing fractions
	Add/Sub Mixed Numbers - Like	
L6	Denoms.	Add mixed numbers with like denominators
		Subtract mixed numbers with like denominators
L7	Finding Common Denominators	Find common denominators
	Subtracting by Finding Common	
L8	Denoms.	Practice finding common denominators
	Add/Sub Mixed Numbers - Unlike	<u> </u>
L9	Denoms.	Add mixed numbers with unlike denominators
-		Subtract mixed numbers with unlike denominators
L10	Metric System	Identify the basic units of the metric system
L11	Measuring with the Metric System	Measure using the metric system
	gg	Use formulas to calculate area, perimeter, and
	Davious Formulas	•
L12	Review, Formulas	distance
L12	Review: Formulas  Multiplying Fractions with Whole	distance
	Multiplying Fractions with Whole	
L12 L13	Multiplying Fractions with Whole Numbers	Multiply fractions by whole numbers
L13	Multiplying Fractions with Whole Numbers Multiplying Fractions with Mixed	Multiply fractions by whole numbers
	Multiplying Fractions with Whole Numbers Multiplying Fractions with Mixed Numbers	
L13 L14	Multiplying Fractions with Whole Numbers Multiplying Fractions with Mixed Numbers Multiplying Decimals with Whole	Multiply fractions by whole numbers  Multiply fractions and mixed numbers
L13 L14 L15	Multiplying Fractions with Whole Numbers Multiplying Fractions with Mixed Numbers Multiplying Decimals with Whole Numbers	Multiply fractions by whole numbers
L13 L14	Multiplying Fractions with Whole Numbers Multiplying Fractions with Mixed Numbers Multiplying Decimals with Whole Numbers	Multiply fractions by whole numbers  Multiply fractions and mixed numbers
L13 L14 L15 8 CALCULATORS	Multiplying Fractions with Whole Numbers Multiplying Fractions with Mixed Numbers Multiplying Decimals with Whole Numbers S AND REVIEW	Multiply fractions by whole numbers  Multiply fractions and mixed numbers  Multiply whole and decimal numbers
L13 L14 L15 8 CALCULATORS	Multiplying Fractions with Whole Numbers Multiplying Fractions with Mixed Numbers Multiplying Decimals with Whole Numbers S AND REVIEW Whole Numbers and Your Calculator	Multiply fractions by whole numbers  Multiply fractions and mixed numbers  Multiply whole and decimal numbers  Practice using a calculator
L13 L14 L15 8 CALCULATORS	Multiplying Fractions with Whole Numbers  Multiplying Fractions with Mixed Numbers  Multiplying Decimals with Whole Numbers  S AND REVIEW  Whole Numbers and Your Calculator Multiplication with Your Calculator	Multiply fractions by whole numbers  Multiply fractions and mixed numbers  Multiply whole and decimal numbers  Practice using a calculator  Practice multiplication on a calculator
L13 L14 L15 8 CALCULATORS	Multiplying Fractions with Whole Numbers Multiplying Fractions with Mixed Numbers Multiplying Decimals with Whole Numbers S AND REVIEW Whole Numbers and Your Calculator Multiplication with Your Calculator Division with Your Calculator	Multiply fractions by whole numbers  Multiply fractions and mixed numbers  Multiply whole and decimal numbers  Practice using a calculator  Practice multiplication on a calculator  Practice division on a calculator
L13 L14 L15 8 CALCULATORS L1 L2 L3	Multiplying Fractions with Whole Numbers Multiplying Fractions with Mixed Numbers Multiplying Decimals with Whole Numbers S AND REVIEW Whole Numbers and Your Calculator Multiplication with Your Calculator Division with Your Calculator Add/Sub Decimals with Your	Multiply fractions by whole numbers  Multiply fractions and mixed numbers  Multiply whole and decimal numbers  Practice using a calculator  Practice multiplication on a calculator  Practice division on a calculator  Practice solving addition and subtraction problems
L13 L14 L15 8 CALCULATORS	Multiplying Fractions with Whole Numbers  Multiplying Fractions with Mixed Numbers  Multiplying Decimals with Whole Numbers  S AND REVIEW  Whole Numbers and Your Calculator Multiplication with Your Calculator Division with Your Calculator Add/Sub Decimals with Your Calculator	Multiply fractions by whole numbers  Multiply fractions and mixed numbers  Multiply whole and decimal numbers  Practice using a calculator  Practice multiplication on a calculator  Practice division on a calculator
L13 L14 L15 8 CALCULATORS L1 L2 L3 L4	Multiplying Fractions with Whole Numbers  Multiplying Fractions with Mixed Numbers  Multiplying Decimals with Whole Numbers  S AND REVIEW  Whole Numbers and Your Calculator Multiplication with Your Calculator Division with Your Calculator Add/Sub Decimals with Your Calculator Mult/Div Decimals with Your	Multiply fractions by whole numbers  Multiply fractions and mixed numbers  Multiply whole and decimal numbers  Practice using a calculator  Practice multiplication on a calculator  Practice division on a calculator  Practice solving addition and subtraction problems with decimals on a calculator
L13 L14 L15 8 CALCULATORS L1 L2 L3	Multiplying Fractions with Whole Numbers  Multiplying Fractions with Mixed Numbers  Multiplying Decimals with Whole Numbers  S AND REVIEW  Whole Numbers and Your Calculator Multiplication with Your Calculator Division with Your Calculator Add/Sub Decimals with Your Calculator	Multiply fractions by whole numbers  Multiply fractions and mixed numbers  Multiply whole and decimal numbers  Practice using a calculator  Practice multiplication on a calculator  Practice division on a calculator  Practice solving addition and subtraction problems with decimals on a calculator  Multiply and divide decimals with a calculator
L13 L14 L15 8 CALCULATORS L1 L2 L3 L4 L5	Multiplying Fractions with Whole Numbers Multiplying Fractions with Mixed Numbers Multiplying Decimals with Whole Numbers S AND REVIEW  Whole Numbers and Your Calculator Multiplication with Your Calculator Division with Your Calculator Add/Sub Decimals with Your Calculator Mult/Div Decimals with Your Calculator	Multiply fractions by whole numbers  Multiply fractions and mixed numbers  Multiply whole and decimal numbers  Practice using a calculator  Practice multiplication on a calculator  Practice division on a calculator  Practice solving addition and subtraction problems with decimals on a calculator  Multiply and divide decimals with a calculator  Review and identify the similar properties of addition
L13 L14 L15 8 CALCULATORS L1 L2 L3 L4 L5 L6	Multiplying Fractions with Whole Numbers  Multiplying Fractions with Mixed Numbers  Multiplying Decimals with Whole Numbers  S AND REVIEW  Whole Numbers and Your Calculator Multiplication with Your Calculator Division with Your Calculator Add/Sub Decimals with Your Calculator Mult/Div Decimals with Your Calculator Mult/Div Decimals with Your Calculator  Review: Properties of Add/Mult	Multiply fractions by whole numbers  Multiply fractions and mixed numbers  Multiply whole and decimal numbers  Practice using a calculator  Practice multiplication on a calculator  Practice division on a calculator  Practice solving addition and subtraction problems with decimals on a calculator  Multiply and divide decimals with a calculator  Review and identify the similar properties of addition and multiplication
L13 L14 L15 8 CALCULATORS L1 L2 L3 L4 L5	Multiplying Fractions with Whole Numbers Multiplying Fractions with Mixed Numbers Multiplying Decimals with Whole Numbers S AND REVIEW  Whole Numbers and Your Calculator Multiplication with Your Calculator Division with Your Calculator Add/Sub Decimals with Your Calculator Mult/Div Decimals with Your Calculator	Multiply fractions by whole numbers  Multiply fractions and mixed numbers  Multiply whole and decimal numbers  Practice using a calculator  Practice multiplication on a calculator  Practice division on a calculator  Practice solving addition and subtraction problems with decimals on a calculator  Multiply and divide decimals with a calculator  Review and identify the similar properties of addition and multiplication  Review grouping number concepts
L13 L14 L15 8 CALCULATORS L1 L2 L3 L4 L5 L6	Multiplying Fractions with Whole Numbers  Multiplying Fractions with Mixed Numbers  Multiplying Decimals with Whole Numbers  S AND REVIEW  Whole Numbers and Your Calculator Multiplication with Your Calculator Division with Your Calculator Add/Sub Decimals with Your Calculator Mult/Div Decimals with Your Calculator Mult/Div Decimals with Your Calculator  Review: Properties of Add/Mult	Multiply fractions by whole numbers  Multiply fractions and mixed numbers  Multiply whole and decimal numbers  Practice using a calculator  Practice multiplication on a calculator  Practice division on a calculator  Practice solving addition and subtraction problems with decimals on a calculator  Multiply and divide decimals with a calculator  Review and identify the similar properties of addition and multiplication  Review grouping number concepts  Solve word problems using fractions
L13 L14 L15 8 CALCULATORS L1 L2 L3 L4 L5 L6 L7	Multiplying Fractions with Whole Numbers  Multiplying Fractions with Mixed Numbers  Multiplying Decimals with Whole Numbers  S AND REVIEW  Whole Numbers and Your Calculator Multiplication with Your Calculator Division with Your Calculator Add/Sub Decimals with Your Calculator Mult/Div Decimals with Your Calculator Mult/Div Decimals with Your Calculator Review: Properties of Add/Mult Review: Grouping and Fractions	Multiply fractions by whole numbers  Multiply fractions and mixed numbers  Multiply whole and decimal numbers  Practice using a calculator  Practice multiplication on a calculator  Practice division on a calculator  Practice solving addition and subtraction problems with decimals on a calculator  Multiply and divide decimals with a calculator  Review and identify the similar properties of addition and multiplication  Review grouping number concepts  Solve word problems using fractions  Determine sensible answers through rounding and
L13 L14 L15 8 CALCULATORS L1 L2 L3 L4 L5 L6 L7	Multiplying Fractions with Whole Numbers  Multiplying Fractions with Mixed Numbers  Multiplying Decimals with Whole Numbers  S AND REVIEW  Whole Numbers and Your Calculator Multiplication with Your Calculator Division with Your Calculator Add/Sub Decimals with Your Calculator Mult/Div Decimals with Your Calculator  Mult/Div Decimals with Your Calculator  Review: Properties of Add/Mult Review: Grouping and Fractions  Review: Estimation and Rounding	Multiply fractions by whole numbers  Multiply fractions and mixed numbers  Multiply whole and decimal numbers  Practice using a calculator  Practice multiplication on a calculator  Practice division on a calculator  Practice solving addition and subtraction problems with decimals on a calculator  Multiply and divide decimals with a calculator  Review and identify the similar properties of addition and multiplication  Review grouping number concepts  Solve word problems using fractions  Determine sensible answers through rounding and estimation
L13 L14 L15 8 CALCULATORS L1 L2 L3 L4 L5 L6 L7	Multiplying Fractions with Whole Numbers  Multiplying Fractions with Mixed Numbers  Multiplying Decimals with Whole Numbers  S AND REVIEW  Whole Numbers and Your Calculator Multiplication with Your Calculator Division with Your Calculator Add/Sub Decimals with Your Calculator Mult/Div Decimals with Your Calculator Mult/Div Decimals with Your Calculator Review: Properties of Add/Mult Review: Grouping and Fractions	Multiply fractions by whole numbers  Multiply fractions and mixed numbers  Multiply whole and decimal numbers  Practice using a calculator  Practice multiplication on a calculator  Practice division on a calculator  Practice solving addition and subtraction problems with decimals on a calculator  Multiply and divide decimals with a calculator  Review and identify the similar properties of addition and multiplication  Review grouping number concepts  Solve word problems using fractions  Determine sensible answers through rounding and

L11	Review of Mixed Numbers	Practice converting mixed numbers to improper fractions Practice converting improper fractions to mixed numbers
	Mult. of Whole Numbers and	
L12	Fractions	Practice multiplying whole numbers by fractions
L13	Mult. of Fractions with Fractions	Practice multiplying fractions with fractions
	Mixed Numbers to Improper	17.5
L14	Fractions	Convert mixed numbers to improper fractions
L15	Multiplying Mixed Numbers	Multiply mixed numbers
9 FRACTIONS, R	ATIOS, AND DECIMALS	
L1	Finding Reciprocals	Find reciprocals of fractions
L2	Reciprocals and Dividing Fractions	Practice finding reciprocals
	· · · · · · · · · · · · · · · · · · ·	Find reciprocals of fractions
		Divide fractions
		Practice finding reciprocals
	Dividing Fractions with Whole	5 27
L3	Numbers	Divide fractions by whole numbers
		Divide fractions
	Dividing Fractions with Mixed	
L4	Numbers	Divide fractions by mixed numbers
		Divide fractions by whole numbers
		Divide mixed numbers by fractions
		Divide fractions by mixed numbers
L5	Division of Decimals	Divide decimal numbers by whole numbers
		Divide decimal numbers by whole numbers
L6	Place Value and Remainders	Use decimals instead of remainders in division
		Find information on a coordinate graph using ordered
		pairs
		Find information on a coordinate graph using ordered
L7	Coordinate Graphs	pairs
	•	Describe and compare groups of objects using ratios Convert decimals to percents
L8	Ratios	Describe and compare groups of objects using ratios
<u>L9</u>	Converting Fractions and Decimals	Convert fractions to decimals
20	Conversing Fractions and Documais	Practice problem solving
		Convert decimals to fractions
L10	Fractions to Decimals to Percent	Convert fractions to decimals
2.0	radione to Bosimale to Foresin	Convert decimals to percents
L11	Comparing Fractions	Compare the values of fractions
	Add/Sub Mixed Numbers and	
L12	Decimals	Addition and subtraction of mixed numbers
-· <b>-</b>	_ 55615	Addition and subtraction of decimals
L13	Mult/Div Fractions and Decimals	Multiplication and division of mixed numbers
		Multiplication and division of fractions
L14	Word Problems	Practice problem solving
		acado problem conting

10 ESTIMA	TION, RANDOM SAMPLES, GRAPHS, REV	IEW
L1	Estimation and Prediction	Identify data
		Identify random samples
		Identify biased samples
		Answer questions based on data from random
L2	Random Samples	samples
L3	Graphs	Graph data provided from a random sample
L4	Problems Using Graphs	Solve problems using graphs
	Review: Factors, Rounding, and	
L5	Averages	Review and practice finding factors
		Review and practice rounding
		Review and practice finding averages
	Review: Lines, Angles, Shapes, and	
L6	Ratios	Identify different types of lines
		Identify three types of angles
		Identify shapes
		Describe information in ratio form
L7	Review: Place Value	Review place value to the hundred millions
L8	Review: Writing Large Numbers	Review writing numbers to the hundred millions
L9	Review: Missing Number Equations	Solve missing number equations
	Review: Multiplication of Whole	
L10	Numbers	Multiply by one, two, and three-digit multipliers
L11	Review: Division of Whole Numbers	Review division of whole numbers

Unit Number and Title

**Lesson Title** 

1 NUMBERS AND	PLACE VALUE	
L1	Reading and Comparing Numbers	Match the Arabic numerals to number words
		Compare number values
	Place Value Through the Billion's	
L2	Place	Learn to read numbers through the billion's place
L3	Roman Numerals	Convert Roman numerals to Arabic numerals
		Convert Arabic numerals to Roman numerals
L4	Ways of Looking at Numbers	Identify different ways to categorize numbers
L5	Expanded Notation	Explore place value using expanded notation
L6	Exponential Notation	Write numbers in exponential form
		Convert numbers from exponential form to standard form
L7	Exponents and Expanded Notation	Write numbers using exponents
		Write numbers in expanded notation
L8	Prime Factorization	Identify prime factors of a number using factor trees
		Identify prime factors of a number using factor boxes
L9	More Prime Factorization	Identify prime factors of a number using factor trees
		Identify prime factors of a number using factor boxes
L10	Number Relationships	Identify cardinal numbers
	•	Identify ordinal numbers
		Identify prime and composite numbers
2 OPERATIONS V	WITH WHOLE NUMBERS	
L1	Basic Mathematical Operations	Review the mathematical symbols and terms associated with addition Review the mathematical symbols and terms associated with subtraction Review the mathematical symbols and terms associated with multiplication Review the mathematical symbols and terms
-		associated with division
L2	Properties of Addition	Identify number sentences that demonstrate the following properties: the Associative Property of Addition the Commutative Property of Addition the Identify Property of Addition

L3	More Practice with Properties of Addition	Solve addition problems that demonstrate one of the following properties: the Associative Property of Addition the Commutative Property of Addition the Identify Property of Addition Identify number sentences that demonstrate one of the following properties: the Associative Property of Addition the Commutative Property of Addition
L4	Operations and Their Opposites	the Identify Property of Addition  Use inverse operations to solve problems Use inverse order of operations to solve problems
1.5	Culturation of Mhala Numbers	Review the concept of borrowing in subtraction of
<u>L5</u>	Subtraction of Whole Numbers	whole numbers
L6	Introduction to Equations	Use addition to solve simple equations
17	Cationation	Use subtraction to solve simple equations
L7	Estimating	Calculate sums and differences
	Commutative and Associative	Estimate sums and differences  Solve multiplication problems that demonstrate one of
L8	Properties of Multiplication	the following properties:
-	-1	the Associative Property of Addition
		the Commutative Property of Addition
		the Identify Property of Addition
		Identify number sentences that demonstrate one of
		the following properties:
		the Associative Property of Addition
		the Commutative Property of Addition
		the Identify Property of Addition
L9	Multiplication of Whole Numbers	Review one-digit multiplication
Lo	Maniphodion of Whole Hambers	Review two-digit multiplication
	Factors, Multiples, and Whole	Neview two-digit multiplication
L10	Number Multiplication	Identify factors and multiples of whole numbers
		Complete two and three-digit multiplication problems
L11	Division of Whole Numbers	Calculate the quotient of one- and two-digit divisors
L12	Division of Whole Numbers	Review division with remainders
L13	More Division of Whole Numbers	Practice division with remainders
	Equations Using Multiplication and	
L14	Division	Use multiplication to solve simple equations
		Use division to solve simple equations
3 ADVANCED	PRACTICE WITH WHOLE NUMBERS	
L1	Sums and Differences	Calculate sums and differences
		Estimate sums and differences
L2	More Sums and Differences	Calculate sums and differences
		Estimate sums and differences
L3	Still More Sums and Differences	Calculate sums and differences
		Estimate sums and differences

L4	Estimating Products	Calculate products
1.5	Fatimatica Ovationts	Estimate products
L5	Estimating Quotients	Calculate quotients
L6	Mara Estimating Quationts	Estimate quotients
Lo	More Estimating Quotients	Calculate quotients
	Calculator Practice: Addition and	Estimate quotients
17	Subtraction	Practice adding whole numbers and decimal numbers on a calculator
L7	Subtraction	
		Practice subtracting whole numbers and decimal
	More Calculator Practice: Addition	numbers on a calculator
L8	and Subtraction	Calvo addition problems using a calculator
Lo	and Subtraction	Solve addition problems using a calculator
		Solve subtraction problems using a calculator
		Solve multiplication problems using a calculator
1.0	D1 1-9-99 D. L.	Solve division problems using a calculator
L9	Divisibility Rules	Utilize the divisibility rules for 2, 3, 5, 6, 9, and 10
1.40	Properties of Addition and	De la distributa de la Calla de la consegue de la Calla de la Call
L10	Multiplication	Review the the following properties of addition:
		The Associative Property
		The Commutative Property
		The Identity Property
		Review the the following properties of multiplication:
		The Associative Property
		The Commutative Property
		The Identity Property
L11	Patterns and Number Sequences	Identify various number patterns
1	Rounding and Missing Number	
L12	Patterns	Round numbers to the given place value
		Solve for an unknown variable
		Solve word problems
		Use problem-solving strategies to solve problems that
L13	Problem Solving	review skills learned previously in this unit
4 DECIMAL	L NUMBERS	
		Identify the place value of specified digits in a given
<u>L1</u>	Positioning the Decimal Point	number
		Compare decimal numbers using greater than and
<u>L2</u>	Comparing Decimal Numbers	less than
	Rounding Whole Numbers and	
L3	Decimal Numbers	Round decimal numbers to the hundredths place
		Round decimal numbers to the thousandths place
	More Rounding Whole Numbers and	
L4	Decimal Numbers	Round to the given place value
L5	Rounding Decimal Numbers	Divide decimal numbers by a power of ten
L6	Decimal Numbers	Write decimal fractions in words
		Write decimal fractions using digits
L7	Equivalent Decimals	Create equivalent decimal numbers
	1	1 22 20 2 222

L8	Adding and Subtracting Decimals	Add a column of three decimal numbers Subtract decimal numbers
L9	Adding Decimal Numbers	Rewrite horizontally aligned addition problems into vertically aligned addition problems and solve
L10	Decimal Numbers and Operations	Solve addition, subtraction, multiplication and division of decimal problems  Convert fractions to decimals  Convert decimals to fractions  Write decimal numbers in words
L11	Review: Adding, Subtracting, and Multiplying Decimal Numbers	Adding decimal numbers Subtracting decimal numbers Multiplying decimal numbers
L12	Review: Rules of Multiplication and Division	Multiply whole numbers and decimal numbers Divide whole numbers and decimal numbers
L13	More Review: Multiplication and Division	Multiply whole numbers and decimal numbers Divide whole numbers and decimal numbers
L14	Multiplication of Decimals  Multiplication of Whole and Decimal	Multiply decimal numbers times a multiple of 10
L15 L16	Numbers  Multiplying Decimals	Multiply whole numbers and decimal numbers  Multiply two given decimal numbers
L17	Division Using 10, 100, 1,000	Divide decimal numbers by powers of ten
L18	Review: Division	Divide whole numbers and decimal numbers
L19	Division of Decimal Numbers	Divide decimal numbers by decimal numbers
5 BEGINNING	G FRACTIONS	
L1	Introduction to Fractions and Decimals	Identify the parts of a fraction Identify that decimal numbers are special kinds of fractions Review how to write fraction and decimal number words
L2	Writing Fractions as Decimals	Convert decimal numbers into fractions Convert fractions into decimal numbers
L3	Relating Fractions to Decimals	Convert fractions to decimals
L4	Fractions to Decimals	Convert fractions to decimal numbers Convert decimal numbers to fractions Divide decimal numbers by whole numbers and other decimals
L5	Equivalent Fractions	Recognize equivalent fractions
<u>L6</u>	Proper, Improper, and Mixed Fractions	Construct proper fractions, improper fractions and mixed numbers
1.7	Convert Improper Fractions to Mixed	Convert improper fractions into mixed numbers
L7 L8	Numbers Fractions	Convert improper fractions into mixed numbers  Reduce fractions to their lowest terms  Create equivalent fractions

L9	Reducing Improper Fractions	Reduce improper fractions to their lowest terms
	Converting Mixed Numbers to	
L10	Improper Fractions	Convert mixed numbers into improper fractions
		Compare fractions using greater than, less than, ar
L11	Comparing Fractions	equal to
L12	Least Common Multiple	Determine prime factors of a given number
		Calculate the least common multiple (LCM) of two
		given numbers using prime factors of the given
		numbers
L13	Review: Prime Factoring	Factor numbers using factor trees
		Identify the greatest common factor (GCF) of two
		given numbers
		Identify the least common multiple (LCM) of two give
		numbers
		Add fractions that do not have common denominate
L14	Greatest Common Factors	using least common multiples
		Subtract fractions that do not have common
		denominators using least common multiples
		Reduce fractions using greatest common factors
	Greatest Common Factors and	Calculate the GCF of two given numbers using prin
L15	Lowest Common Multiples	factors
	•	Calculate the LCM of two given numbers using prir
		factors
	Addition and Subtraction of Fractions	
L16	with Common Denominators	Add fractions with common denominators
		Subtract fractions with common denominators
	Addition and Subtraction of Mixed	
	Numbers with Common	
L17	Denominators	Add mixed numbers with common denominators
		Subtract mixed numbers with common
	Addition and Subtraction of Fractions	
	and Mixed Numbers with Unlike	Add fractions and mixed numbers with unlike
L18	Denominators	denominators
		Subtract fractions and mixed numbers with unlike
		denominators
	Subtraction of Unlike Fractions and	Subtract fractions with unlike denominators that
L19	Mixed Numbers with Borrowing	require regrouping
		Subtract mixed numbers with unlike denominators
		that require regrouping
		Add and fractions and mixed numbers with unlike
	Adding and Subtracting Fractions	denominators
L20		
L20		Subtract fractions and mixed numbers with unlike
L20		Subtract fractions and mixed numbers with unlike denominators
L20		

6 MULTIPL	YING AND DIVIDING FRACTIONS	
_1	Multiplication of Fractions	Multiply fractions
2	Multiplication of Proper Fractions	Multiply fractions
	·	Reduce products to simplest terms
	Multiplication of Fractions with	· ·
.3	Reducing	Multiply fractions times whole numbers
	· ·	Reduce products to simplest terms
_4	Multiplying Mixed Numbers	Multiply fractions and mixed numbers
	Multiplying Whole Numbers and	· ·
.5	Fractions	Multiply whole numbers times fractions
.6	Multiplying and Reducing Fractions	Multiply fractions
		Reduce using cross-cancellation
.7	Reciprocals	Write the reciprocals of the given fractions
.8	Division of Fractions by a Fraction	Divide and simplify fractions
	·	Simplify quotients
	Division of Fractions with Whole	
.9	Numbers	Divide fractions by whole numbers
		Divide whole numbers by fractions
		Simplify quotients
	Division of Fractions with Mixed	. , ,
10	Numbers	Divide fractions by whole numbers
		Divide whole numbers by fractions
		Simplify quotients
	Dividing Whole Numbers and	
.11	Fractions	Identify the reciprocal of a given fraction
		Divide fractions by whole numbers
		Divide whole numbers by fractions
		Divide fractions by mixed numbers
		Divide mixed numbers by fractions
.12	Dividing Fractions	Divide fractions
.13	More Dividing Fractions	Divide fractions
	3	Divide mixed numbers
	Multiplying and Dividing with	
.14	Fractions	Solve equations using multiplication of fractions
		Solve equations using division of fractions
	Multiplying and Dividing with	Solve equations using multiplication of decimal
.15	Decimals	numbers
-		Solve equations using division of decimal numbers
DECIMAL	S AND FRACTIONS	
	Converting Fractions to Decimals an	d
.1	Percents	Convert decimals into percents
. 1	r Grodins	Convert decimals into percents  Convert fractions into percents
.2	Finding Paraentages	
.∠	Finding Percentages	Convert decimals into percents
2	Equations Using Dersont	Convert fractions into percents
.3	Equations Using Percent	Solve equations involving percent
_4	More Equations Using Percent	Solve equations involving percent

	Changing Fractions to Decimals to	
L5	Percent	Convert fractions to decimal numbers
		Convert decimal numbers into percentages
L6	Converting Fractions to Decimals	Convert fractions to decimals using division
L7	Prime and Composite Numbers	Identify prime numbers
		Identify composite numbers
L8	Prime Numbers and Prime Factors	Identify prime and composite numbers
		Identify prime factors of a given number
L9	Prime and Composite Practice	Identify prime and composite numbers
		Identify prime factors of a given number
1.40	0	Identify the greatest common factor (GCF) of given
L10	Greatest Common Factors	numbers
1.44		Identify the greatest common factor (GCF) of given
L11	Common Multiple	numbers
		Identify the least common multiple (LCM) of given numbers
		Identify the prime factors of a given number using factor boxes
		Add fractions and mixed numbers by finding the least
L12	Practice Adding Fractions	common denominator (LCD) of two fractions
	Tradition reading Traditions	common denominator (EGB) or two madicine
L13	Practice Subtracting Fractions	Subtract fractions and mixed numbers with borrowing
	TRY AND MEASUREMENT	3
OGEOMET	IN AND MEACONEMENT	
L1	Two and Three Dimensional Shapes	Identify the following two-dimensional shapes:
LI	Two and Three Dimensional Shapes	triangles
		circles
		squares
		Identify the following three-dimensional shapes:
		cylinders
		cubes
		spheres
		pyramids
		cones
L2	Three Dimensional Shapes	Identify the following three-dimensional shapes:
		cube
		sphere
		cylinder
		cone
L3	Shapes	Identify lines of symmetry
		Identify congruent shapes
1 /		Identify similar shapes
L4	Circles	Identify similar shapes Calculate the radius area of circles
L4	Circles	Identify similar shapes Calculate the radius area of circles Calculate the diameter of circles
L4	Circles	Identify similar shapes Calculate the radius area of circles

L5	Lines, Angles, and Congruency	Identify the following types of lines: parallel lines intersecting lines perpendicular lines vertical lines horizontal lines Identify the following types of congruent shapes: triangles acute angles obtuse angles
L6	Lines, Rays, and Angles	Identify lines using standard naming conventions Identify rays using standard naming conventions Identify angles using standard naming conventions
L7	Angles	Identify lines, rays, and angles Draw lines, rays, and angles Identify triangles based upon their angle
L8	Angles and Shapes	measurement using the following names: right acute obtuse Identify triangles based upon their side measurement using the following names: equilateral isosceles scalene
L9	Perimeter, Volume, and Area	Calculate the perimeter of various cubes Calculate the volume various cubes Calculate surface area of various cubes
L10	More Perimeter, Volume, and Area	Calculate the perimeter of various geometric shapes Calculate the volume of various geometric shapes Calculate the surface area of various geometric shapes
L11	Equation Basics, Area and Perimeter	Solve simple equations Calculate area and perimeter of a rectangular room using a formula
L12	Review Formulas: Distance, Area, Perimeter, and Amount	Identify the formulas for the following: Area of rectangles, triangles, and circles Perimeter of rectangles and triangles Circumference of circles Volume of cubes Solve for the following: Area of rectangles, triangles, and circles Perimeter of rectangles and triangles Circumference of circles Volume of cubes

dis pe are	entify and practice using the following formulas: stance erimeter ea nount
dis pe	entify and practice using the following formulas: stance erimeter
	earn the meaning of the various metric prefixes
Co	onvert from one unit of metric measure to another ompare one unit of metric measure to another using eater than and less than
Converting Metric Units to English	
	onvert metric units to customary units
	onvert customary units to metric units
	now the abbreviations for the customary units of
•	easure
	onvert customary units of measure
	dd customary units of measure
Add and Subtract Units of Measure, L18 Time Zones Su	ubtract quatamary units of magazira
	ubtract customary units of measure provert time through time zones
	olve two- and three-digit multiplication problems
'	blve problems using the following formulas:
	rea
	erimeter
	stance
	mount
9 STATISTICS AND GRAPHING	
L1 Prediction and Probability Ca	alculate the likelihood of a given event happening
	ractice writing ratios using colons and fractions
	etermine the ratio of two given items within word
pro	oblems
·	ecognize equivalent fractions as ratios
Re	ead bar graphs
Reading Bar Graphs and Line	
	ead line graphs
	ead circle graphs
	ead picture graphs
	alculate mean of a given set of numbers
	alculate mode of a given set of numbers
	alculate median of a given set of numbers

		Solve word problems involving various types of
L7	Statistics: Averaging	averages
L8	Averages, Equalities, and Inequalities	Calculate the mean, mode, and median of a given set
		Identify equalities and inequalities
		Identify the greatest common factor (GCF) of a given
		set of numbers
L9	Problem Solving	Use problem solving skills to calculate answers
		Solve problems involving positive and negative
L10	Positive and Negative Numbers	numbers
		Identify points, or ordered pairs, on a coordinate
L11	Coordinate Graphs	graph
10 REVIEW		
L1	Operating on Whole Numbers	Review the following whole number concepts:
		Addition
		Subtraction
		Multiplication
		Division
		Number words
		Expanded notation
		Exponential form
L2	Basic Operations and Rounding	Review rounding numbers
		Review addition, subtraction, multiplication and
		division of whole numbers
		Compare numbers using less than, greater than, or
		equal to
	Multiplying and Dividing Whole	
L3	Numbers	Multiply whole numbers
		Divide whole numbers
L4	Fractions, Averages, and Graphs	Calculate equivalent fractions
		Plot coordinate points on a grid
		Review bar graphs, circle graphs, and picture graphs
		Identify the mean, mode, and median of a given set of
		numbers
L5	Picture, Bar, and Pie Charts	Review circle graphs
		Review bar graphs
		Review picture graphs
L6	Adding and Subtracting Fractions	Add fractions and mixed numbers
	-	Subtract fractions and mixed numbers
L7	Multiplying Mixed Numbers	Multiply mixed numbers
		Multiply fractions
L8	Dividing Mixed Numbers	Divide mixed numbers
		Divide fractions

L9	Adding and Subtracting Decimals	Add decimal numbers
		Subtract decimal numbers
L10	Multiplying Decimals	Multiply decimal numbers
	Dividing Decimals and Rounding	
L11	Numbers	Divide decimal numbers
		Round numbers to the given place value
		Use addition, subtraction, multiplication, and division
L12	Patterns and Number Sequences	to determine number patterns
	Rounding and Missing Number	
L13	Problems	Round numbers to the given place value
		Solve for an unknown variable
		Solve word problems
		Utilize problem-solving techniques to confirm answers
L14	Problem Solving	to a set of given math problems
	<u>-</u>	Solve addition, subtraction, and multiplication
		problems

Unit Number Lesson Title

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L1	JMBERS: MULTIPLICATION AND DIVISION	
	Properties of Addition and Multiplication	Identify the commutative properties of addition and multiplication Identify the associative properties of addition and multiplication
		Use the identity elements of addition and multiplication Use the zero property of multiplication
		Solve problems using the distributive property of
L2	The Distributive Property	multiplication over addition
		Solve problems using the distributive property of division over subtraction
		Review multiplying three-digit numbers by two-digit
L3	Multiplication 1	numbers
1.4	Multiplication 2	Review multiplying three-digit numbers by three-digit numbers
L5	Functions	Determine the value of y given x in a function
L6	Division 1	Review the vocabulary associated with divisior
17	Division 2	Estimate and compute quotients  Estimate and compute quotients
L8	Division 3	Identify patterns in a given list of number Solve for ordered pairs of numbers using function rules
		Solve real world problems using division
L9	Customary Units of Measure	Identify the abbreviations of customary units of measure  Convert customary units of measure
	Multiplying and Dividing Weights and	
L10	Measures	Multiply weights and measures Divide weights and measures
L11	Calculators and Prime Numbers	Use a calculator to identify prime numbers
	IS: ADDITION AND SUBTRACTION	
L1	Divisibility Rules and Factor Trees	Use divisibility rules when dividing and factoring Create factor trees to determine the prime factors of a
		given number
		Use the prime factors of two or more numbers to
L2	Greatest Common Factor/Least Common Multiple	identify the greatest common factor of the given numbers
LZ	Common Multiple	Reduce fractions using greatest common factors
		Use the prime factors of two or more numbers to
		identify the least common multiple of the given numbers
		Review the concept of fractions and equivalent
L3	Proper Fractions	fractions
		Reduce fractions using the greatest common factor of the numerator and the denominator
		Identify equivalent fractions by raising the numerator
		and denominator by the same multiple
L4	Improper Fractions 1	Reduce improper fractions to mixed numbers using division
	impropor radiciono :	Recognize whole numbers written as fractions
		Convert mixed numbers into improper fractions
L5	Comparing Fractions	Review the value of fractions using a number line Convert mixed numbers into improper fractions
		Compare and sequence a list of given fractions
	Comparing Decimal Numbers	Review place value through the millionths place
L6		
L6		Convert decimal numbers into fractions  Compare the value of two or more given decimal
		Compare the value of two or more given decimal numbers
L6	Fractions as Decimals	Compare the value of two or more given decimal numbers  Convert decimal numbers into fractions
	Fractions as Decimals	Compare the value of two or more given decimal numbers Convert decimal numbers into fractions Convert fractions into decimal numbers
	Fractions as Decimals  Decimals, Fractions, and Percents	Compare the value of two or more given decimal numbers  Convert decimal numbers into fractions
L7 L8 L9	Decimals, Fractions, and Percents Ratios and Proportions	Compare the value of two or more given decimal numbers Convert decimal numbers into fractions Convert fractions into decimal numbers Convert decimal numbers, fractions, and percents into equivalent forms  Express ratios using fractions, colons, or the word "to" Compare ratios using proportions
L7	Decimals, Fractions, and Percents	Compare the value of two or more given decimal numbers Convert decimal numbers into fractions Convert fractions into decimal numbers Convert decimal numbers, fractions, and percents into equivalent forms  Express ratios using fractions, colons, or the word "to" Compare ratios using proportions Practice metric conversions
L7 L8 L9	Decimals, Fractions, and Percents  Ratios and Proportions  Metric Measurement	Compare the value of two or more given decimal numbers Convert decimal numbers into fractions Convert fractions into decimal numbers Convert decimal numbers, fractions, and percents into equivalent forms  Express ratios using fractions, colons, or the word "to' Compare ratios using proportions Practice metric conversions Convert fractions and mixed numbers to terminating
L7 L8 L9	Decimals, Fractions, and Percents Ratios and Proportions	Compare the value of two or more given decimal numbers Convert decimal numbers into fractions Convert fractions into decimal numbers Convert fedimal numbers, fractions, and percents into equivalent forms  Express ratios using fractions, colons, or the word "to" Compare ratios using proportions Practice metric conversions Convert fractions and mixed numbers to terminating decimal numbers Convert fractions and mixed numbers to non-terminating decimal numbers
L7 L8 L9 L10	Decimals, Fractions, and Percents  Ratios and Proportions  Metric Measurement	Compare the value of two or more given decimal numbers Convert decimal numbers into fractions Convert fractions into decimal numbers Convert decimal numbers, fractions, and percents into equivalent forms  Express ratios using fractions, colons, or the word "to" Compare ratios using proportions Practice metric conversions Convert fractions and mixed numbers to terminating decimal numbers Convert fractions and mixed numbers to non-terminating decimal numbers Add, subtract, multiply, and divide decimal numbers using a calculator Convert fractions to decimal numbers using a calculator
L10 L11	Decimals, Fractions, and Percents  Ratios and Proportions  Metric Measurement  Terminating and Repeating Decimals  Decimals with a Calculator	Compare the value of two or more given decimal numbers Convert decimal numbers into fractions Convert fractions into decimal numbers Convert fractions into decimal numbers Convert decimal numbers, fractions, and percents into equivalent forms  Express ratios using fractions, colons, or the word "to' Compare ratios using proportions Practice metric conversions Convert fractions and mixed numbers to terminating decimal numbers Convert fractions and mixed numbers to non-terminating decimal numbers Add, subtract, multiply, and divide decimal numbers using a calculator Convert fractions to decimal numbers using a calculator Review rounding to a given place value
L10 L11	Decimals, Fractions, and Percents Ratios and Proportions Metric Measurement Terminating and Repeating Decimals	Compare the value of two or more given decimal numbers Convert decimal numbers into fractions Convert fractions into decimal numbers Convert fractions into decimal numbers Convert decimal numbers, fractions, and percents into equivalent forms  Express ratios using fractions, colons, or the word "to' Compare ratios using proportions Practice metric conversions Convert fractions and mixed numbers to terminating decimal numbers Convert fractions and mixed numbers to non-terminating decimal numbers Add, subtract, multiply, and divide decimal numbers using a calculator Convert fractions to decimal numbers using a calculator Review rounding to a given place value Convert decimal numbers to percent Convert decimal numbers to percent Convert percent into decimal numbers
L8 L9 L10 L11 L12 L13	Decimals, Fractions, and Percents  Ratios and Proportions  Metric Measurement  Terminating and Repeating Decimals  Decimals with a Calculator  Uses of Percents	Compare the value of two or more given decimal numbers Convert decimal numbers into fractions Convert fractions into decimal numbers Convert fractions into decimal numbers Convert feacimal numbers, fractions, and percents into equivalent forms  Express ratios using fractions, colons, or the word "to' Compare ratios using proportions Practice metric conversions Convert fractions and mixed numbers to terminating decimal numbers Convert fractions and mixed numbers to non-terminating decimal numbers Add, subtract, multiply, and divide decimal numbers using a calculator Convert fractions to decimal numbers using a calculator Review rounding to a given place value Convert decimal numbers to percent Convert percent into decimal numbers Convert percent into decimal numbers Calculate a given percentage of a given number
L8 L9 L10 L11 L12 L13	Decimals, Fractions, and Percents  Ratios and Proportions  Metric Measurement  Terminating and Repeating Decimals  Decimals with a Calculator	Compare the value of two or more given decimal numbers Convert decimal numbers into fractions Convert fractions into decimal numbers Convert feactions into decimal numbers Convert decimal numbers, fractions, and percents into equivalent forms  Express ratios using fractions, colons, or the word "to' Compare ratios using proportions Practice metric conversions Convert fractions and mixed numbers to terminating decimal numbers Convert fractions and mixed numbers to non-terminating decimal numbers Add, subtract, multiply, and divide decimal numbers using a calculator Convert fractions to decimal numbers using a calculator Review rounding to a given place value Convert decimal numbers to percent Convert decimal numbers to percent Convert decimal numbers
L10 L11 L12 L13	Decimals, Fractions, and Percents Ratios and Proportions Metric Measurement Terminating and Repeating Decimals Decimals with a Calculator Uses of Percents with Like Denominators	Compare the value of two or more given decimal numbers Convert decimal numbers into fractions Convert fractions into decimal numbers Convert fractions into decimal numbers Convert feacimal numbers, fractions, and percents into equivalent forms  Express ratios using fractions, colons, or the word "to" Compare ratios using proportions Practice metric conversions Convert fractions and mixed numbers to terminating decimal numbers Convert fractions and mixed numbers to non-terminating decimal numbers Add, subtract, multiply, and divide decimal numbers using a calculator Convert fractions to decimal numbers using a calculator Convert fractions to decimal numbers using a Calculator Convert decimal numbers to percent Convert percent into decimal numbers Calculate a given percentage of a given number Add fractions with like denominators Subtract fractions with like denominators Add fractions with like denominators Add fractions with like denominators
L8 L9 L10 L11 L12	Decimals, Fractions, and Percents  Ratios and Proportions  Metric Measurement  Terminating and Repeating Decimals  Decimals with a Calculator  Uses of Percents	Compare the value of two or more given decimal numbers Convert decimal numbers into fractions Convert fractions into decimal numbers Convert fractions into decimal numbers Convert decimal numbers, fractions, and percents into equivalent forms  Express ratios using fractions, colons, or the word "to' Compare ratios using proportions Practice metric conversions Convert fractions and mixed numbers to terminating decimal numbers Convert fractions and mixed numbers to non-terminating decimal numbers Add, subtract, multiply, and divide decimal numbers using a calculator Convert fractions to decimal numbers using a calculator Review rounding to a given place value Convert decimal numbers to percent Convert percent into decimal numbers Calculate a given percentage of a given number Add fractions with like denominators Subtract fractions with like denominators

L16	More Adding and Subtracting Fractions	Add fractions with like denominators, and then reduce the answer to a proper fraction Subtract fractions with like denominators, and then reduce the answer to a proper fraction
L17	Mixed Numbers: Adding and Subtracting with Like Denominators	Add mixed numbers with like denominators, and reduce to a proper fraction Subtract mixed numbers with like denominators, and reduce to a proper fraction
L18	Mixed Numbers: Subtracting with Regrouping	Subtract mixed numbers with regrouping
L19	Problem Solving with Fractions	Solve word problems using addition of fractions and mixed numbers Solve word problems using subtraction of fractions and mixed numbers and mixed numbers
L20	Least Common Denominators	Find the least common denominator of two fractions with unlike denominators Add fractions with unlike denominators Subtract fractions with unlike denominators
L21	Equivalent Fractions	Create an equivalent set of fractions using the least common denominator of a given set of fractions
L22	Fractions: Adding and Subtracting with Unlike Denominators	Add fractions with unlike denominators by creating least common denominators and equivalent fractions
		Subtract fractions with unlike denominators by creating least common denominators and equivalent fractions
L23	Reducing Final Answers	Reduce sums to simplest terms Reduce differences to simplest terms
L24	More Fractions: Adding and Subtracting with Unlike Denominators	Add fractions with unlike denominators by using least common denominators and equivalent fractions
		Subtract fractions with unlike denominators by using least common denominators and equivalent fractions
L25	Even More Addition and Subtraction of Fractions	Add with unlike denominators by using least common denominators and equivalent fractions
		Subtract fractions with unlike denominators by using least common denominators and equivalent fractions
L26	More Problem Solving with Fractions	Solve word problems using addition of fractions and mixed numbers Solve word problems using subtraction of fractions and mixed numbers
6 FRACTION	S: MULTIPLICATION AND DIVISION	and mixed nambers
L1	Multiplying Fractions	Multiply fractions Reduce products to simplest terms
L2	Reducing Fractions	Reduce fractions by identifying the greatest common factor of the denominator and the numerator Review divisibility rules
L3	Multiplying Mixed Numbers	Simplify fractions before multiplying using cancelling Review how to convert a mixed number to an improper fraction
L4	More Multiplying Mixed Numbers	Multiply mixed numbers Review how to convert an improper fraction to a mixed number Multply mixed numbers and reduce products to
L5	Numbers	simplest terms  Divide fractions by fractions
	Problem Solving: Multiplication,	Divide mixed numbers by mixed numbers Solve real-world problems involving fractions using
L6	Division, and Reasonable Answers	multiplication Solve real-world problems involving fractions using division Use estimation skills to determine the reasonability of
L7	Converting Fractions to Decimals	a given answer  Convert fractions to decimals
1.0	Dooimala, Multipliantian	Convert mixed numbers to decimals Convert decimals to fractions Multiply decimal numbers
L8	Decimals: Multiplication	Multiply decimal numbers Multiply decimal numbers times a power of ten
L9	Decimals: Division	Divide decimal numbers Divide decimal numbers by a power of ten
L10	Decimals: Word Problems	Solve real-world problems involving decimal numbers using multiplication Solve real-world problems involving decimal numbers using division
		using division
		Review rounding skills
L11 L12	Solving for Percentages Solving for Percentages: Rate and Base	

.1	Introduction to Lines, and Angles	Identify lines and line segments
2	III i a Bartan	Use geometric terms to name given angles
.2	Using a Protractor	Identify a specified angle by name
		Use a protractor to measure the size of a given angl
_3	Triangle Terms	Identify the parts of a triangle Name triangles by their vertexes
		Identify the following types of triangles: equilateral,
		right, isosceles, and scalene
_4	Perimeter and Area of Triangles	Calculate the perimeter of a given triangle
	Perimeter and Area of Squares and	Determine the area of a triangle using grid paper  Determine the perimeter of given squares and
_5	Rectangles	rectangles using grid paper
		Determine the area of given squares and rectangles
		using grid paper Find the sum of the angles of given squares and
		rectangles
	Parallelograms, Trapezoids, and	Determine the perimeter and area of given
_6	Formulas	parallelograms and trapezoids using grid paper Use given formulas for calculating the area and
		perimeter of squares, rectangles, parallelograms, ar
		triangles
_7	Circles	Calculate the circumference of circles using a formula Calculate the area of circles using a formula
		a round
_8	Hexagons	Determine the perimeter of hexagons using grid pap
		Determine the area of hexagons using grid paper Identify various geometric shapes and terms
_9	Ratio Review	Review ratios written as fractions
_10	Proportion Review	Review solving proportions
L11	Similar Figures and Shall Day	Lies proportions to determine visualizations
-11	Similar Figures and Scale Drawings	Use proportions to determine similar figures Use proportions to determine if a map and/or
		geometric figure is drawn to scale
STATISTICS	AND GRAPHS	
		Know vocabulary and terms related to gathering and
_1	Introduction to Statistics	organizing statistical data
	11	Analyze data to determine the number of times a
_2	Introduction to Frequency Distribution	piece of data is repeated in a given set Calculate the relative frequency of a given piece of
		data in relation to the whole set of data
	Measures of Central Tendency: Mode	
_3	and Median	Determine the mode of a given set of data  Determine the median of a given set of data
	Measures of Central Tendency: Mean	
_4	and Range	Determine the mean of a given set of data
_	D : T (0 )	Determine the range of a given set of data
L5	Review: Types of Graphs	Review bar graphs, line graphs, and picture graphs Use comparison graphs to compare two or more set
		of data
	Coordinate Graphs	Identify a set of points of a coordinate graph
_6	Coordinate Graphs	
	·	ONC
FORMULAS	, FUNCTIONS, RATIOS, AND PROPORTI	
	, FUNCTIONS, RATIOS, AND PROPORTI	ONS Use formulas to solve for unknown variables
FORMULAS	, FUNCTIONS, RATIOS, AND PROPORTI Solving for Unknown Variables Formulas: From Interest to Miles per Gallon	Use formulas to solve for unknown variables Use formulas to solve for unknown variables
FORMULAS	, FUNCTIONS, RATIOS, AND PROPORTI Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables Solve for ordered pairs given an algebraic function
FORMULAS	, FUNCTIONS, RATIOS, AND PROPORTI Solving for Unknown Variables Formulas: From Interest to Miles per Gallon	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function Identify equations as true, false, or open
FORMULAS	, FUNCTIONS, RATIOS, AND PROPORTI Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function Identify equations as true, false, or open  Solve for the variable in open equations
FORMULAS	, FUNCTIONS, RATIOS, AND PROPORTI Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function identify equations as true, false, or open  Solve for the variable in open equations  Use opposite operations to solve for unknown variables in equations
9 FORMULAS 1.1 _2 _3 _4	, FUNCTIONS, RATIOS, AND PROPORTIC Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function identify equations as true, false, or open  Solve for the variable in open equations  Use opposite operations to solve for unknown  variables in equations  Use common formulas (area, rate, interest) to solve
FORMULAS L1 2 .3 .4	, FUNCTIONS, RATIOS, AND PROPORTI Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving Isolating the Variable Using Formulas to Solve Problems	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function Identify equations as true, false, or open  Solve for the variable in open equations  Use opposite operations to solve for unknown variables in equations  Use common formulas (area, rate, interest) to solve real-world problems
9 FORMULAS 11 22 33 -4	, FUNCTIONS, RATIOS, AND PROPORTIC Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function Identify equations as true, false, or open  Solve for the variable in open equations  Use opposite operations to solve for unknown variables in equations  Use common formulas (area, rate, interest) to solve real-world problems  Review ways to write ratios
9 FORMULAS 11 22 33 -4	, FUNCTIONS, RATIOS, AND PROPORTI Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving Isolating the Variable Using Formulas to Solve Problems	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function  Identify equations as true, false, or open  Solve for the variable in open equations  Use opposite operations to solve for unknown  variables in equations  Use common formulas (area, rate, interest) to solve  real-world problems  Review ways to write ratios  Review how to determine if a proportion is true, false  or open
9 FORMULAS .1 .2 .3 .4 .5 .6 .7	FUNCTIONS, RATIOS, AND PROPORTI Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving Isolating the Variable Using Formulas to Solve Problems Review: Ratios	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function Identify equations as true, false, or open  Solve for the variable in open equations  Use opposite operations to solve for unknown variables in equations  Use common formulas (area, rate, interest) to solve real-world problems  Review ways to write ratios  Review how to determine if a proportion is true, falst
9 FORMULAS .1 .2 .3 .3 .4 .4 .5 .6 .7	FUNCTIONS, RATIOS, AND PROPORTI Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving  Isolating the Variable Using Formulas to Solve Problems Review: Ratios Review: Proportions	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function  Identify equations as true, false, or open  Solve for the variable in open equations  Use opposite operations to solve for unknown  variables in equations  Use common formulas (area, rate, interest) to solve  real-world problems  Review ways to write ratios  Review how to determine if a proportion is true, false  or open  Solve open proportions
9 FORMULAS .1 .2 .3 .4 .5 .6 .7	FUNCTIONS, RATIOS, AND PROPORTI Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving Isolating the Variable Using Formulas to Solve Problems Review: Ratios	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function Identify equations as true, false, or open Solve for the variable in open equations  Use opposite operations to solve for unknown variables in equations  Use common formulas (area, rate, interest) to solve real-world problems  Review ways to write ratios  Review how to determine if a proportion is true, false or open Solve open proportions
9 FORMULAS .1 .2 .3 .3 .4 .4 .5 .6 .7	FUNCTIONS, RATIOS, AND PROPORTI Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving  Isolating the Variable Using Formulas to Solve Problems Review: Ratios Review: Proportions	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function  Identify equations as true, false, or open  Solve for the variable in open equations  Use opposite operations to solve for unknown  variables in equations  Use common formulas (area, rate, interest) to solve  real-world problems  Review ways to write ratios  Review how to determine if a proportion is true, false  or open
9 FORMULAS .1 .2 .3 .3 .4 .4 .5 .6 .7	FUNCTIONS, RATIOS, AND PROPORTI Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving Isolating the Variable Using Formulas to Solve Problems Review: Ratios Review: Proportions	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function  Identify equations as true, false, or open  Solve for the variable in open equations  Use opposite operations to solve for unknown  variables in equations  Use common formulas (area, rate, interest) to solve  real-world problems  Review days to write ratios  Review how to determine if a proportion is true, false  or open  Solve open proportions
9 FORMULAS -1.1 -2.2 -3.3 -4.4 -5.5 -6.6 -7.7 -8.8 10 REVIEW	FUNCTIONS, RATIOS, AND PROPORTI  Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving  Isolating the Variable Using Formulas to Solve Problems Review: Ratios Review: Proportions  Place Value, Order, and Rounding  Central Tendency, Ratios, and	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function  Identify equations as true, false, or open  Solve for the variable in open equations  Use opposite operations to solve for unknown  variables in equations  Use common formulas (area, rate, interest) to solve  real-world problems  Review ways to write ratios  Review how to determine if a proportion is true, false  or open  Solve open proportions  Review place value  Review place value  Review omparing numbers using greater than and  less than  Review rounding whole numbers
9 FORMULAS .1 .2 .3 .3 .4 .4 .5 .6 .7	FUNCTIONS, RATIOS, AND PROPORTI Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving Isolating the Variable Using Formulas to Solve Problems Review: Ratios Review: Proportions	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function Identify equations as true, false, or open Solve for the variable in open equations Use opposite operations to solve for unknown variables in equations Use common formulas (area, rate, interest) to solve real-world problems Review ways to write ratios Review how to determine if a proportion is true, false or open Solve open proportions  Review comparing numbers using greater than and less than Review rounding whole numbers  Review the measures of central tendency
9 FORMULAS -1.1 -2.2 -3.3 -4.4 -5.5 -6.6 -7.7 -8.8 10 REVIEW	FUNCTIONS, RATIOS, AND PROPORTI  Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving  Isolating the Variable Using Formulas to Solve Problems Review: Ratios Review: Proportions  Place Value, Order, and Rounding  Central Tendency, Ratios, and	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function  Identify equations as true, false, or open  Solve for the variable in open equations  Use opposite operations to solve for unknown  variables in equations  Use common formulas (area, rate, interest) to solve  real-world problems  Review ways to write ratios  Review how to determine if a proportion is true, false  or open  Solve open proportions  Review place value  Review place value  Review omparing numbers using greater than and  less than  Review rounding whole numbers
9 FORMULAS -1.1 -2.2 -3.3 -4.4 -5.5 -6.6 -7.7 -8.8 10 REVIEW	FUNCTIONS, RATIOS, AND PROPORTI  Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving  Isolating the Variable Using Formulas to Solve Problems Review: Ratios Review: Proportions  Place Value, Order, and Rounding  Central Tendency, Ratios, and	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function  Identify equations as true, false, or open  Solve for the variable in open equations  Use opposite operations to solve for unknown  variables in equations  Use common formulas (area, rate, interest) to solve  real-world problems  Review how to determine if a proportion is true, false  or open  Solve open proportions  Review place value  Review place value  Review comparing numbers using greater than and  less than  Review the measures of central tendency  Review identifying ratios and proportions  Use various strategies to solve real-world problems
9 FORMULAS 1.1 2.2 3.3 4.4 5.6 6.6 7.7 8.8 10 REVIEW 1.1	FUNCTIONS, RATIOS, AND PROPORTI  Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving  Isolating the Variable Using Formulas to Solve Problems Review: Ratios Review: Proportions  Place Value, Order, and Rounding  Central Tendency, Ratios, and Proportions  Problem Solving Strategies	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function Identify equations as true, false, or open  Solve for the variable in open equations Use opposite operations to solve for unknown variables in equations  Use common formulas (area, rate, interest) to solve real-world problems  Review ways to write ratios  Review how to determine if a proportion is true, false or open Solve open proportions  Review place value  Review place value  Review rounding whole numbers  Review the measures of central tendency Review identifying ratios and proportions  Use various strategies to solve real-world problems  Review the following geometric properties: area,
9 FORMULAS .1 .2 .3 .4 .5 .6 .6 .7 .8 8 10 REVIEW	FUNCTIONS, RATIOS, AND PROPORTI Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving Isolating the Variable Using Formulas to Solve Problems Review: Ratios Review: Proportions  Place Value, Order, and Rounding  Central Tendency, Ratios, and Proportions	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function identify equations as true, false, or open  Solve for the variable in open equations  Use opposite operations to solve for unknown variables in equations  Use common formulas (area, rate, interest) to solve real-world problems  Review ways to write ratios  Review how to determine if a proportion is true, false or open Solve open proportions  Review place value Review comparing numbers using greater than and less than  Review the measures of central tendency Review identifying ratios and proportions  Use various strategies to solve real-world problems
9 FORMULAS 1.1 2.2 3.3 4.4 5.6 6.6 7.7 8.8 10 REVIEW 1.1	FUNCTIONS, RATIOS, AND PROPORTI  Solving for Unknown Variables Formulas: From Interest to Miles per Gallon Ordered Pairs and Functions Equations: Defining and Solving  Isolating the Variable Using Formulas to Solve Problems Review: Ratios Review: Proportions  Place Value, Order, and Rounding  Central Tendency, Ratios, and Proportions  Problem Solving Strategies	Use formulas to solve for unknown variables  Use formulas to solve for unknown variables  Solve for ordered pairs given an algebraic function Identify equations as true, false, or open  Solve for the variable in open equations Use opposite operations to solve for unknown variables in equations  Use common formulas (area, rate, interest) to solve real-world problems  Review ways to write ratios  Review how to determine if a proportion is true, false or open Solve open proportions  Review place value  Review place value  Review rounding whole numbers  Review the measures of central tendency Review identifying ratios and proportions  Use various strategies to solve real-world problems  Review the following geometric properties: area,

L6	Number Systems and Factorization	Review converting numbers from base ten to base two Review factorization using least common multiples and greatest common factors
L7	Operating on Fractions and Decimals	Review addition, subtraction, multiplication and division of fractions Review dividing decimal numbers
L8	Base, Rate, and Percentage	Review converting decimal numbers to percentages
		Review converting percentages into decimal numbers Review solving for a given percentage of a number
L9	Percentages and Averages	Review how to solve for a percentage of a given number Review how to determine the average (mean) of a given set of numbers
L10	Formula Review	Review how to solve for an unknown value within a formula
L11	Solving Equations	Review how to determine if an equation is true, false, or open Solve open equations
L12	Ratios and Proportions	Review how to write a ratio from a given set of data Review how to solve for a proportion
L13	Different Types of Statistics	Review data collection Review measures of central tendency

Unit Number and Title	Lesson Title	Lesson Objectives
1 PLACE VALUE		
L1	What Are Whole Numbers?	Review place value of whole number Review word names of whole number
L2	Whole Numbers from Words to Numerals	Review whole number word names
L3	Whole Number Place Value	Identify the place value of whole numbers through the quadrillions place
L4	Rounding Numbers	Write numbers in expanded notation Round whole numbers to the specified place value
L5	Mathematical Symbols and Multiples	Review basic arithmetic and mathematical symbols Identify multiples of a given whole numbe
L6	Ancient Numeral Systems	Translate Arabic numerals into Roman numeral Translate Arabic numerals into Egyptian numeral
L7	More Ancient Numeral Systems	Translate Arabic numerals into Sumarian numerals Translate Arabic numerals into Egyptian numeral Examine multiplying three-digit by four-digit number: using a lattice
L8	Base Ten and Exponential Forn	Write numbers using expanded notation
L9	Base Ten and Base Two	Write numbers using exponential forn Translate numbers from base ten to base tw Translate numbers from base two to base te
L10	Introduction to Sets	Review the basic concepts of set theor
L11	Properties of Addition and Multiplication	Review the Commutative Properties of Addition
		Review the Commutative Properties of Multiplication Review the Associative Properties of Additio Review the Associative Properties of Multiplicatio
L12	Operations with Sets	Practice the operations of union and intersection o sets
L13	Simple Probability	Review the use of Venn diagrams with set Examine the concept of theoretical probabilit
		Examine the concept of relative frequenc  Determine the probability of an event utilizing o
L14	Or Statements: Union of Sets	statements  Determine the probability of an event utilizing an
L15	And Statements: Intersection of Sets	
2 FACTORS ANI	MULTIPLES	
L1	Prime and Composite Numbers	Identify prime numbers
		Identify composite numbers  Use divisibility rules to determine what will divide into
L2	Divisibility Tests for Factors Using Factors and Multiples	given number evenly  Determine the prime factors of a given number
		Find the square of a given numbe
L4	Squares and Square Roots	Find the square of a given numbe Find the square root of a given numbe
L5	Greatest Common Factor	Solve simple equations that involve squared number identify the greatest common factor (GCF) of two given numbers. Use GCF to reduce fractions. Use GCF to determine if two given numbers are relatively prime.
L6	Least Common Multiple	Identify the least common multiple of two giver numbers Use the LCM of two fractions to determine a common denominator
L7	Proper Fractions and Equivalent Fractions	Review proper fractions Review improper fractions Review mixed numbers Review equivalent fractions
L8	Reducing Fractions, Raising Fractions	Use GCF to reduce fractions to lowest terms Find equivalent fractions
L9	Improper Fractions and Mixed Numbers	Convert improper fractions into mixed numbers Convert mixed numbers into improper fraction
L10	Mixed Numbers and Improper Fractions	Convert improper fractions into mixed numbers Convert mixed numbers to improper fraction Solve division problems and write the quotient as mixed number
L11	Fractional Values	Identify fractional value on a number lin  Compare fractions using greater than or less tha  Put fractions and mixed numbers in numerical orde
L12	Decimal Numbers and Place Value	using a list or a number line Convert fractions to decimal number
		Review the words used to describe decimal numbers Identify decimal numbers that have been written in expanded notation Identify the place value of a given digit in a decima number
L13	Comparing Value and Fractions as Decimal	Compare decimal numbers using greater than, less than, or equal to Arrange decimal numbers into numerical orde Convert fractions to decimal number
L14	Changing Decimals to Fractions; Equivalent Fractions	Convert fractions to decimal numbers Convert decimal numbers to fractions and mixer numbers Convert fractions and mixed numbers to decima
L15	Percent and Percent as Decima	numbers Define random samplinç
	Fractions and Percentages	Make predictions  Convert percentages to decimal number  Convert decimal numbers to percentage
L16		Dragtica finding paraents
L16	Introduction to Ratios	Practice finding percents  Practice writing ratios using fractions, words, and colons

L19	Similar Figures and Scale Drawings	Use proportions to determine the similarity of two give figures			
		Use proportions to identify graphics that are drawn to			
L20	Introduction to Scientific Notatior Scientific Notation Practice writing numbers using scientific notation				
	Convert metric measurements using scientific notati				
L21	Terminating Decimals, Repeating Decimals	Convert fractions to terminating decimal numbers			
	Dominal	Convert fractions to repeating decimal number			
		Convert terminating decimal numbers to fraction Convert repeating decimal numbers to fraction			
L22	Adding Fractions and Decimals	Add fractions with common denominator: Find common denominators to add fractions withou			
		like denominators			
		Add decimal numbers			
L23	Exploring Different Kinds of Numbers	Identify counting numbers Identify whole numbers			
		Identify integers			
		Identify rational numbers			
3 FRACTIONS AN					
11	Addition: Fractions with Common Denominators	Add fractions with common denominators			
L2	Addition of Fractions: Reducing Sum	sAdd fractions with common denominators Reduce fractions using Greatest Common Factors			
L3	Addition: Unlike Fractions	(GCF) Add fractions with unlike denominator			
		Use Least Common Multiples (LCM) to conver			
		fractions to common denominators before adding Add a set of three fractions with unlike denominators			
1.4	Addition: Unlike Fractions, Mixed Numbers	using the Least Common Multiple to identify common denominators			
L4		Add mixed numbers			
L5	More Addition of Mixed Numbers	Add mixed numbers Reduce sums to the simplest form			
		Solve word problems that involve fractions using			
L6	Subtraction of Like Fractions	addition Subtract fractions with common denominator			
L7	Subtractions of Unlike Fractions	Subtract fractions that do not have commor denominators			
		Find common denominators of fractions using Leas			
		Common Multiples Subtract mixed numbers that do not have common			
L8	Subtraction of Mixed Numbers	denominators			
		Find common denominators of fractions using Leas Common Multiples			
		Simplify fractions (differences) to lowest term: Subtract mixed numbers that do not have common			
L9	More Subtraction of Mixed Numbers	denominators			
		Find common denominators of fractions using Leas Common Multiples			
	More Presting Culturation -4.5	Simplify fractions (differences) to lowest term:			
L10	Numbers	Subtract mixed numbers that do not have common denominators			
		Find common denominators of fractions using Leas Common Multiples			
L11	Addition of Decimals	Simplify fractions (differences) to lowest term: Add decimal numbers			
L12	Subtraction of Decimals	Subtract decimal numbers			
		Use addition to check the answers to subtractior problems			
1.12	Calculator Evergions	Use a calculator to multiply and divide decima			
L13	Calculator Exercises	numbers Use a calculator to solve word problems that involv			
L14	Rounding Numbers	decimal numbers  Round to the nearest whole number place value			
4		Round to the nearest whole number place valu  Round the nearest decimal place valu			
L15	Fraction and Decimal Review	Add fractions with and without common denominators			
		Subtract fractions with and without commor			
		denominators Find common denominators using Least Commor			
		Multiples Add and subtract decimal numbers			
		Round to the nearest whole number place valu			
		Round to the nearest decimal place valu			
4 FRACTIONS AN	ND PERCENT				
L1	Multiplying Fractions	Multiply fractions			
		Simplify by canceling common factors prior to multiplying			
L2	Multiplying Mixed Numbers and Decimal Numbers	Multiply mixed numbers			
		Simplify by canceling common factors prior to			
		multiplying Complete function tables using multiplication o			
		fractions			
		Multiply decimal numbers  Determine the reciprocal of a given fraction or mixer			
L3	Division of Fractions	number Divide fractions			
		Divide mixed numbers			
		Divide decimal numbers			
L4 L5	Division of Decimal Numbers  More Division of Decimal Numbers	Divide decimal numbers			
L4		Divide decimal numbers Divide decimal numbers			
L4 L5	More Division of Decimal Numbers				
L4 L5 L6	More Division of Decimal Numbers Decimal Division and Roundins	Divide decimal numbers  Round the quotient to the given decimal place value			
L4 L5	More Division of Decimal Numbers	Divide decimal numbers  Round the quotient to the given decimal place value			

L8	Review of Decimal Division,	
	Rounding, and Function Tables	Divide decimal numbers
		Round the quotient to the given decimal place value Complete function tables that involve fraction
		Complete function tables that involve decimal numbe Solve word problems involving fractions and decima
L9	Fractions, Decimals, and Percents	numbers Convert fractions to percentage:
		Convert decimal numbers to percentage Solve equations involving percentage
L10 L11	Percentage Problems More Percentage Problems	Solve equations that involve percentage Solve equations that involve percentage
	•	
5 NUMBERS	Review of Basic Number Theor	Write the number word for the given numbe
	Review of Dasic Number Triedi	Write the given number in expanded notatio Write the given expanded number in standard for Round to the given whole number place valu
	Addition and Subtraction Word	Solve addition problems Solve word problems that involve addition of whol
L2	Problems	numbers Solve word problems that involve subtraction of whol numbers
L3	Multiplication of Whole Numbers	Solve multiplication problems that involve whol numbers
L4	Multiplication Word Problems	Solve word problems that involve multiplication c whole numbers
L5	Division Word Problems	Solve word problems that involve division of whol numbers
	Word Problems Using the Four	Solve word problems that involve addition, subtraction
L6 L7	Operations Numbers and Sets	multiplication, and divisio Identify various forms of number representatio
	Review: Factors, Multiples, and	Review set concepts
L8	Rational Numbers	Review whole number concepts Review fraction concepts
L9	Review: Decimals and Application: Review: Addition of Fractions and	Review decimal number concept:
L10	Mixed Numbers	Add fractions with common denominators. Use Least Common Multiple to determine equivaler fractions for fractional addition problems that do not have common denominator Reduce sums to simplest form
L11	Review: Subtraction of Fractions and Mixed Numbers	
	Mixed Numbers	Use Least Common Multiple to determine equivaler fractions for fractional addition problems that do not have common denominator
	Review: Addition and Subtraction of	Reduce differences to simplest form
L12	Fractions and Mixed Numbers	Add decimal numbers Subtract decimal numbers
L13	Review: Multiplication of Fractions and Decimals	Multiply fractions and mixed numbers Reduce products to simplest form
L14	Review: Division of Fractions and Decimals	Multiply decimal numbers
L14	Review: Percentage Equation:	Divide fractions and mixed numbers Divide decimal numbers Review solving problems that involve percentage
LIS	Review. Percentage Equation:	Round numbers to the given place valu
L16	Mean, Mode, Median, and Range	Solve for the mean, mode, median, and range of given set of numbers
L17	Graphs and Probability	Review line graphs, bar graphs, and comparison ba graphs Complete function tables
		Graph the solutions to functions on a coordinate grap
		Solve for simple probability
6 FORMULAS	AND GEOMETRY	
		Review the formulas for area and perimeter of variou
L1	Area, Perimeter, and Square Roots	geometric figures Identify the square root of the given perfect square numbers Use the divide and average method to determine th approximate square root of non-perfect square
L2	Circumference and Area of Circles	numbers  Calculate the area of circles
LZ		Calculate the perimeter of circles
	Triangle, Pythagorean Theorer	Calculate the area and perimeter of triangle Determine the unknown length of a side of a trianglusing the Pythagorean theorem
L3		Identify geometric figures as parallelograms trapezoids, or rhombbuses
L3	Types of Quadrilaterals	Calculate the area and perimeter of parallelograms trapezoids, and rhombbuses
	Types of Quadrilaterals  Rectangular Solids	Calculate the area and perimeter of parallelograms
L4		Calculate the area and perimeter of parallelograms trapezoids, and rhombbuses  Convert squared units of measurr  Calculate surface area and volume of rectangula
L4 L5	Rectangular Solids	Calculate the area and perimeter of parallelograms trapezoids, and rhombbuses Convert squared units of measurs Calculate surface area and volume of rectangula solids Convert cubic units of measurs Calculate the surface area of prism: Calculate the lateral area of prism: Calculate the volume of prism:
L4 L5	Rectangular Solids Pyramids and Prisms Solid Figures	Calculate the area and perimeter of parallelograms trapezoids, and rhombbuses Convert squared units of measure Calculate surface area and volume of rectangula solids Convert cubic units of measure Calculate the surface area of prisms Calculate the slateral area of prisms
L4 L5	Rectangular Solids Pyramids and Prisms	Calculate the area and perimeter of parallelograms trapezoids, and rhombbuses Convert squared units of measure Calculate surface area and volume of rectangula solids Convert cubic units of measure Calculate the surface area of prisms Calculate the surface area of prisms Calculate the volume of prism Calculate the volume of prism Calculate the volume of prisms

7 INTEGER		
L1	Introduction to Integers	Identify integers
		Compare integers using greater than and less than
L2	More Integers	Order integers from greatest to leas
		Find the absolute value of a given intege
		Compare the absolute value of two given integer
		using greater than and less than
		Add the absolute value of a set of integer
L3	Plotting Points on a Cartesian Plane	Graph points on a Cartesian plane
		Identify the number pair for a given point on a
		Cartesian plane
L4	More About Integers	Graph points on a Cartesian plan
		Identify the number pair for a given point on a
		Cartesian plane
		Graph points on a Cartesian plane to create a
L5	Plotting	geometric shape
L6	Introduction to Adding Integer:	Add integers
L7	Addition of Integers	Add integers
L8	Rules and Properties of Addition	Add integers
L9	Subtraction of Integers	Subtract integers
L10	More Subtraction of Integers	Subtract integers
L11	Multiplication of Integers	Multiply integers
L12	Integers and Exponent:	Find the value of a powe
L13	Division	Divide integers

8 THE VAR	IABLE	
		Solve equations using the Commutative Property c
L1	Commutative Properties	Addition
		Solve equations using the Commutative Property c
		Multiplication
		Solve equations using the Associative Property c
L2	Associative Properties	Addition
		Solve equations using the Associative Property c
		Multiplication
L3	Variables in Formulas	Solve for unknown variable
L4	Variables: Combining Like Terms	Combine like terms to solve for unknown variable
		Simplify expressions using the Distributive Property
		Multiplication over Addition
		Simplify expressions using the Distributive Property
L5	Distributive Property	Multiplication over Subtraction
L6	Multiplying Binomials	Identify monomials and binomial
		Simplify binomials using the Distributive Property o
		Multiplication over Addition
		Simplify binomials using the Distributive Property o
		Multiplication over Subtraction
		Simplify binomials using the F.O.I.L. methor
		Solve for unknown variables using the Addition
L7	Addition Property of Equality	Property of Equality
		Solve for unknown variables using the Subtraction
L8	Subtraction Property of Equality	Property of Equality
		Solve for unknown varibles using the Multiplication
L9	Multiplication Property of Equality	Property of Equality
		Solve for unknown variables using the Divisior
L10	Division Property of Equality	Property of Equality
		Solve equations by combining like terms and using the
		Addition, Subtraction, Multiplication and Division
L11	Combination of Terms Equations	Properities of Equality
L12	Problem Solving Phrases	Translate words into algebraic phrase
L13	Sentences to Equations	Translate words into algebraic sentence
L14	Problem Solving	Translate words into algebraic sentence
		Solve for the unknown variabl
		Use problem solving to identify a set of consecutive
L15	More Problem Solving	integers
		Use problem solving to determine the age of two o
I 16	Proportion Problems	more given persons Solve word problems using proportion
LIU	Fropolitori Froblems	Solve word problems using proportion

9 STATIST	TICS, GRAPHS, AND PROBABILITY	
L1	Statistics: Mean	Calculate the mean of a given set of number
L2	Median and Mod€	Identify the median of a given set of number
		Identify the mode of a given set of number
	Deviation or Spread; Frequency	
L3	Distribution	Calculate the range of a given set of numbers
		Identify the mean, mode, and median of a given set of
		numbers
L4	The Pictograph and Bar Graph	Read bar graphs
		Read pictographs
	Line Segment Graph, Histogram, a	nd
L5	Frequency Polygon	Read line graphs
		Read histograms
		Read graphs that show frequency distribution
	More About Bar Graphs and Line	
L6	Segment Graphs	Read double bar graphs
		Read double line graphs
L7	Number Patterns and Functions	Determine numbers in a Fibonacci sequenc
		Determine numbers in a Pascal's triangle
		Calculate missing numbers in a given functio
		Identify the domain and range for a set of ordere
L8	Coordinate Graphs	pairs
		Identify the ordered pair answers for a given function
		Graph ordered pairs on a Cartesian plan
		Identify the slope and the line intercept of a linea
		equation

10 PRE-AL	GEBRA REVIEW	
	Integers, Absolute Value, and	
L1	Cartesian Planes	Review comparing integers
		Review identifying integers
		Review the absolute value of given intege
		Review addition and subtraction of the absolute valu
ì		of given integers
		Review plotting points on a Cartesian plan
L2	Adding and Subtracting Integers	Review addition of integer:
		Review subtraction of integers
L3	Multiplying Integers	Review multiplying integer:
	., .	Find the solution to the indicated power
L4	Dividing Integers	Review dividing integer:
L5		Review solving equations containing variables
	Expressions, Variables, and	
L6	Exponents	Review solving equations containing variables
		Review solving equations containing exponen
	More Expressions, Variables, and	
L7	Exponents	Review solving equations containing variables
		Review solving equations containing exponen
L8	Graphing Algebraic Sentences	Review graphing the solution to an algebraic sentence
	Geometric Formulas and Square	Review finding the perimeter, circumference, or area
L9	Roots	of given geometric shapes using a formula
		Review calculating the square root of a given numbe
I 10	Area and Volume	Review finding the area of given geometric shape
	Auda dira volune	Treview initially the treat of given geometric triape
		Review finding the volume of given geometric shape:
	Commutative and Associative	Review identifying equations that represent use of th
L11	Properties	Commutative Property
		Review identifying equations that represent use of th
		Associative Property
		Review simplifying algebraic expressions by
I 12	Solving Equations	combining like terms
	9	Review simplifying algebraic expressions using the
		Distributive Property of Multiplication
		Review solving for the value of a variable in a
		algebraic sentence
L13	Applications	Review translating words into algebraic sentence
		Review solving word problems using algebraic
i		sentences

Unit Number Lesson Title

Lesson Objectives

and Title	Lesson Title	Lesson Objectives
	ARIABLES AND INTEGERS	
L1	Introduction	Restate basic math history facts
		Solve simple arithmetic review
L2	Deductive Thinking	Add and subtract decimal numbers
		Recognize and apply axioms to simplify numerical expressions
		expressions
L3	Multiplication Property	Use multiplication to simplify and evaluate expressions
		Identify the numerical coefficient
	Post to the	Harris Ballanda da Arriada da Arr
L4 L5	Products Exponents	Use multiplication to simplify and evaluate expressions Identify base and exponent
	Exponents	Recognize and rewrite powers as repeated
		multiplication
L6	Evaluating Expressions	Evaluate algebraic expressions
		Use the order of operations
L7	Number Skills (Part 1)	Categorize numbers and distinguish between different types
-	rumber ekine (r art 1)	Add and subtract whole numbers
		Perform long division and multiplication, using
L8	Number Skills (Part 2)	rounding
1.0	F	Add, subtract, multiply and divide fractions and mixed
L9	Fractions and Zero	numbers
L10	Percent	Translate freely between percent, decimal, and fraction
		Solve equations involving percent
		Use the distributive property to calculate numerical
L11	The Distributive Property	expressions
		Use the distributive property to find the indicated product of a numerical expression
		Use the distributive property to calculate algebraic
L12	Variables	expressions
		Use the distributive property to find the indicated
		product of an algebraic expression
L13	Simplifying Expressions	Simplify algebraic expressions
L14	Simplifying Like Terms	Simplify algebraic expressions by combining like terms where possible
	Oimpinying Like Terms	Simplify algebraic expressions that contain two or
L15	Simplifying Unlike Terms	more unlike terms
L16	Integers	Identify the opposite of a number on a number line
		Compare integers and locate positions on the real
L17	Integers: Addition	number line Add integers
L17	megers. Addition	Add unlegers Add variable terms with integer coefficients
		Simplify and evaluate algebraic expressions with
		integer coefficients
L18	Integers: Subtraction	Subtract integers by adding the opposite
		Simplify and evaluate algebraic expressions with integer coefficients
L19	Integers: Multiplication	Find the products of integers
L20	Integers: Multiplication (Cont.)	Find the product of fractions
		Evaluate algebraic products
L21	Integers: Division	Divide numerical and algebraic expressions
		Evaluate algebraic quotients
2 ALGEBRA I: SO	DLVING EQUATIONS AND INEQUALIT	TIES
		Determine whether numerical sentences are true or
L1	Sentences and Formulas	false
		Use properties of 0 and 1 to evaluate expressions
L2	Absolute Value	Simplify and evaluate expressions with absolute value
L3	Sentences with Variables	Solve algebraic equations
L4	Sentences with Variables (Cont.)	Solve algebraic inequalities
L5	Formulas	Identify the appropriate formula for a given problem
		Solve for the unknown quantitiy using the appropriate
L6	Verbal Sentences	formula Translate verbal sentences to algebraic sentences
	. S. Sai Comonoco	Solve equations by employing the addition property of
L7	Solving Equations: Addition Property	equality
	Solving Equations: Multiplication	Solve equations by employing the multiplication
L8	Property	property of equality
1.0	Multistan Equation -	Solve multiple-step equations using the multiplication
L9	Multistep Equations	and addition properties of equality

L10	Use of Parentheses	Review multiplication using the distributive property Solve multi-step equations using the distributive,
		addition, and multiplication properties
L11	Literal Equations	Solve literal equations for the indicated variable
L12	Solving Inequalities	Solve inequalities by inspection
L13	Addition and Multiplication Properties	Solve inequalities by employing the addition and multiplication properties of inequality
L14	Sentences with Absolute Value	Find graphical solutions for absolute value inequalities
3 ALGEBRA	A I: PROBLEM ANALYSIS AND SOLUTION	
L1	Problem Analysis and Solution	Translate verbal statements algebraically
	•	Analyze and solve word problems
	Sets and Problem Solving	Recognize and use set notation to describe sets Find intersections and unions of sets
L2	Solving Verbal Problems	Set up and solve equations to solve word problems
L3	Simple Verbal Problems	Use the four-step strategy to solve simple word problems.
		Apply a four-step problem-solving strategy for word
L4	Using More Than One Unknown	problems with more than one unknown Apply a four-step problem-solving strategy to solve
L4A	Geometry Problems	geometry word problems  Apply a four-step problem-solving strategy to solve
L5	Problems Involving Money	money word problems
L6	Medium Verbal Problems	Apply a four-step problem-solving strategy to solve word problems
L7	Lever Problems	Apply a four-step problem-solving strategy to solve word problems
L8		Apply a four-step problem-solving strategy to solve
	Integer Problems	word problems Apply a four-step problem-solving strategy to solve
L9 L11	Challenging Verbal Problems  Mixture Problems and Review	word problems Review problem-solving strategies
		- Trouble problem coming changing
	A I: POLYNOMIALS	
L1	Polynomials: Addition	Simplify polynomials by adding like terms
L2	Sums of Polynomials Polynomials: Subtraction	Add polynomials
L3 L4		Practice subtracting like terms
L4	Differences of Polynomials	Subtract polynomials Simplify polynomials by removing grouping symbols
L5	Grouping Symbol	and combining like terms Simplify polynomials by removing grouping symbols
L6	Multiplication	and combining like terms
L7	Products of Polynomials by Monomials	Find and simplify the product of a monomial and a polynomial
	Worldmad	Find the sum or difference of two or more
		polynomial/monomial products Find and simplify the products of monomial
L8	Products of Polynomials	expressions
	Division	Find and simplify the quotients of monomial
L9	Division	expressions Practice finding and simplifying the quotients of
L10	Division: Monomials	monomial expressions
L11	Quotients of Polynomials	Find and simplify the quotients of polynomial expressions
5 ALGEBRA	A I: FACTORS	
L1	Factors	List factors of a numerical expression
-'	i aciois	Find the greatest common factor of numerical expressions
L2	Literal Terms	LIST TACTORS OF AN ALGEBRAIC EXPRESSION
L2	Literal Terms	List factors of an algebraic expression Find the greatest common factor of algebraic
		Find the greatest common factor of algebraic expressions  Factor two or more polynomials by finding and
L3	Polynomial	Find the greatest common factor of algebraic expressions Factor two or more polynomials by finding and separating the greatest common monomial factor
		Find the greatest common factor of algebraic expressions  Factor two or more polynomials by finding and
L3 L4	Polynomial FOIL and Binomial Factors (Part 1)	Find the greatest common factor of algebraic expressions Factor two or more polynomials by finding and separating the greatest common monomial factor Practice multiplying binomials Factor trinomials into two binomials using the FOIL method
	Polynomial	Find the greatest common factor of algebraic expressions Factor two or more polynomials by finding and separating the greatest common monomial factor Practice multiplying binomials Factor trinomials into two binomials using the FOIL

		Synthesize and apply the several techniques of
L7	Finding Complete Factorizations	factoring general trinomials
L8	Four Term Polynomials	Factor four-term polynomials
		Employ general polynomial factoring technique to
L9	Word Problems	solve word problems
ALTL10		

6 ALGEBRA	I: ALGEBRAIC FRACTIONS	
L1	Operations	Reduce algebraic fractions to simplest terms  Determine the excluded values for an algebraic fraction
L2	Adding and Subtracting Fractions	Find sums and differences of algebraic fractions with common denominators
L3	Least Common Denominators	Find sums and differences of algebraic fractions with unlike denominators
L4	Multiplying and Dividing Fractions	Find products and quotients of algebraic fractions
L5	Simplifying Complex Fractions	Simplify complex fractions
L6	Open Sentences	Solve equations that contain algebraic fractions Verify that the answer is not an excluded value
L7	Literal Equations	Manipulate literal equations to solve for any variable
L8	Solving Inequalities	Solve inequalities that have algebraic fractions
L9	Rewriting Formulas	Manipulate literal equations to solve for any variable Model a word problem by selecting or constructing an
L10	Word Problems	appropriate literal equation Solve the literal equation and interpret the result within the context of the word problem
L11	Quotient Remainder	Solve word problems involving division, addition, and subtraction
7 ALGEBRA	I: RADICAL EXPRESSIONS	
L1	Real Numbers (Part 1)	Convert decimals to fractions
L2	Graphs and Order (1)	Convert fractions to decimals  Order numbers as points on the real number line
		Locate the number that is a given ratio between two
L3	Properties: Closure and Density (1)	numbers
L4	Real Numbers (Part 2): Irrational Numbers	Categorize real numbers as rational or irrational Practice rounding real numbers
L5	Graphs and Order (2)	Locate irrational numbers on a number line
		Graph solutions to inequalities on a real number line
L6	Operations and Irrational Roots	Simplify both numerical and algebraic radicals
L7	Simplifying Radicals	Express irrational roots as simplified expressions  Express irrational roots as rational decimal approximations
L8	Quotient Property	Use the quotient property to simplify quotients involving radicals
L9	Combining Radicals	Combine like radicals
L10	Multiplying Radicals	Multiply radical expressions Apply the distributive property to multiply radical expressions
L11	Dividing Radicals	Divide radical expressions Apply the distributive property when dividing radical expressions
L12	Rationalization of Denominators	Rationalize the denominator of an expression Simplify radical expressions to integral radicands (integers inside the radical)
L13	Equations	Solve equations that contain radical expressions
L14	Solving Radical Equations	Solve equations that contain radical expressions
L15	Literal Equations	Use algebra to isolate any variable in a literal equation Simplify radical expressions containing exponents that
L16	Radicals and Exponents	are fractional
		Simplify radical expressions with an exponent of zero

8 ALGEBR	A I: GRAPHING	
L1	Using Two Variables	Find ordered pair solutions to two-variable equations when given one of the variables
L2	The Real Number Plane	Identify the origin, x axis and y axis on the real number plane Locate points on a real number plane
L3	Translations	Translate English descriptions into two-variable equations

L4	Applying Graphing Techniques-Part 1	Write linear equations in general form Write linear equations in slope-intercept form
		Graph linear equations by finding the x and y
L5	Applying Graphing Techniques-Part 2	intercepts
L6	Applying Graphing Techniques-Part 3	Find the slope of a linear equation
		Graph a linear equation using slope and one point on
		the line
L7	Applying Graphing Techniques-Part 4	Graph linear equations using the slope-intercept form
L8	Applying Graphing Techniques-Part 5	Graph linear inequalities
L9	Applying Graphing Techniques-Part 6	Graph absolute value equations (linear)
L10	Applying Graphing Techniques-Part 7	
		Review the several methods of graphing linear
L11	Writing Equations of Lines-Part 1	equations
L12	Given the Graph	Find the equation of a line from its graph

9 ALGEBRA	I: SYSTEMS	
L1	Graphical Solutions	Identify the number of solutions (intersections) for a system of two linear equations
		Determine the quadrant in which two lines intersect
L2	Graphs	Solve systems of linear equations by graphing Identify consistent, inconsistent, and equivalent systems
L3	Inequalities	Graph systems of linear inequalities
L4	Algebraic Solutions	Solve systems of linear equations by using the elimination method Solve systems of linear equations by the comparison method
L5	Substitution Method	Solve systems of linear equations by using the substitution method Calculate the determinant of a matrix
L6	Determinants	Solve systems of linear equations using the determinant method
L7	Word Problems	Solve word problems by translating into a system of equations  Practice problem solving with algebraic stategies
L20	Scientific Notation	Rewrite decimal numbers using scientific notation Convert scientific notation to decimal numbers
L9	Graphs and Functions	Determine whether a given relation is a function Use functions to solve word problems
altL10	Mathematical Induction	Prove math statements by mathematical induction

10 ALGEB	RA I: QUADRATIC EQUATIONS AND RE	VIEW
L1	Quadratic Equations	Identify quadratic equations and equations that are not quadratic equations Write quadratic equations in general form
L2	Methods of Solving Quadratic Equations	Use the square root property to solve quadratic equations
		Solve quadratic equations by completing the square
L3	The Quadratic Formula	Solve a quadratic equation by using the quadratic formula
		Solve a quadratic equation by factoring
L4	Verbal Problems	Solve word problems by translating them into a quadratic equation and solving
L5	Review of Algebra (Part 1)	Review Unit 1: Variables and Integers Review Unit 2: Solving Equations and Inequalities Review Unit 3: Problem Analysis and Solution
L6	Review of Algebra (Part 2)	Review Unit 4: Polynomials Review Unit 5: Factors
L7	Review of Algebra (Part 3)	Review Unit 6: Algebraic Fractions Review Unit 7: Radical Expressions Review Unit 8: Graphing
L8	Review of Algebra (Part 4)	Review Unit 9: Systems Review Unit 10: Quadratic Equations

and Title	r Lesson Title	Lesson Objectives
1 GEOMETRY:	INTRODUCTION	Poorganize and describe connections between
L1	Geometry and the World	Recognize and describe connections between geometry the world, and God
L2	Nature of Mathematics	Restate important aspects of the nature of mathematics Explore the relationship between the real world and the world of ideas
	The History of Geometric	
L3	Mathematics	Recognize contributions of past mathematicians Interpret the significance of major mathematical discoveries
L4	Geometry's Effect on Me Mathematic System: Set Theory	Develop an appreciation for the potential usefulness of geometry knowledge
L5	Review	Review and practice the rules of set theory Identify finite and infinite sets Identify subsets of a given set
L6	Mathematic System: Operations with Sets	Tind the intersections and unions of sets (set operations) Solve word problems using set theory and set operations
L7	Geometry Undefined Terms: Points	List properties and characteristics of the undefined term "point"
L8	Geometry Undefined Terms: Lines	List properties and characteristics of the undefined term "line"
L9	Geometry Undefined Terms: Planes	List properties and characteristics of the undefined term "plane"
L10	Defined Terms: Definitions	Define segment, ray, and collinear Identify and name examples of segments, rays when prompted
L11	Geometric Postulates	Indicate whether two lines are collinear or not Apply postulates to solve word problems
L12	Review of Algebraic Postulates	Identify characteristics of postulates Review and practice the algebraic postulates
	-	Recall and relate geometric theorems on points, lines,
L13	Geometric Theorems Review of Properties of Algebra	and planes Review properties of algebra
2 GEOMETRY:		review properties or algebra
L1	Logic and Reasoning	Know the fundamental principles of logic and reasoning
L2	History of Logic and Reasoning	Recall past discoveries and influential mathematicians
L3	Logic	Define and identify types of logical statements Recognize and use strategies of logic
L4	Conjunctions	Classify a conjunction as true or false
L5	Disjunctions	Use a truth table to analyze conjunctions Classify a disjunction as true or false
L6	Negation	Use a truth table to analyze disjunctions Classify a negation as true or false
L7		Use truth tables to judge conditional statements Solve problems using conditional statements Identify the converse, inverse, and contrapositive of
L8	Converse, Inverse, Contrapositive	conditional statements  Determine if a statement is true or false
L9	Inductive Reasoning	Use inductive reasoning to draw reasonable conclusions Identify statements as inductive or not inductive
L10		Identify the major and minor premises of a syllogism
	Deductive Reasoning	
L11	Using Deductive Reasoning	Draw conclusions from premises Use deductive reasoning to prove basic theorems
L11 L12		Draw conclusions from premises Use deductive reasoning to prove basic theorems Identify the essential parts of a two-column proof
	Using Deductive Reasoning Proof Formats: Statement of the	Draw conclusions from premises Use deductive reasoning to prove basic theorems
L12	Using Deductive Reasoning Proof Formats: Statement of the Theorem Proof Formats: The Figure	Draw conclusions from premises  Use deductive reasoning to prove basic theorems  Identify the essential parts of a two-column proof Rewrite statements in "if-then" form  Identify the appropriate figure for a proof  Identify the "given" information in a two-column proof
L12 L13	Using Deductive Reasoning Proof Formats: Statement of the Theorem Proof Formats: The Figure	Draw conclusions from premises Use deductive reasoning to prove basic theorems Identify the essential parts of a two-column proof Rewrite statements in "II-then" form Identify the appropriate figure for a proof
L12 L13 L14	Using Deductive Reasoning Proof Formats: Statement of the Theorem Proof Formats: The Figure Proof Formats: The Given Information Proof Formats: To Prove Statement Proof Formats: The Plan of the Proof	Draw conclusions from premises  Use deductive reasoning to prove basic theorems  Identify the essential parts of a two-column proof Rewrite statements in "if-then" form  Identify the appropriate figure for a proof  Identify the "given" information in a two-column proof
L12 L13 L14 L15	Using Deductive Reasoning Proof Formats: Statement of the Theorem Proof Formats: The Figure Proof Formats: The Given Information Proof Formats: To Prove Statement	Draw conclusions from premises  Use deductive reasoning to prove basic theorems  Identify the essential parts of a two-column proof Rewrite statements in "if-then" form  Identify the appropriate figure for a proof  Identify the "given" information in a two-column proof  Identify the statement to prove in a two-column proof  Describe several strategies for planning a proof  Match statements with reasons  Write the negation of a statement  Prove some simple statements
L12 L13 L14 L15 L16	Using Deductive Reasoning Proof Formats: Statement of the Theorem Proof Formats: The Figure Proof Formats: The Given Information Proof Formats: To Prove Statement Proof Formats: The Plan of the Proof Indirect Proof Format: The Paragraph	Draw conclusions from premises Use deductive reasoning to prove basic theorems Identify the essential parts of a two-column proof Rewrite statements in "II-then" form Identify the appropriate figure for a proof Identify the "given" information in a two-column proof Identify the statement to prove in a two-column proof Describe several strategies for planning a proof Match statements with reasons Write the negation of a statement
L12 L13 L14 L15 L16 L17	Using Deductive Reasoning Proof Formats: Statement of the Theorem Proof Formats: The Figure Proof Formats: The Given Information Proof Formats: To Prove Statement Proof Formats: The Plan of the Proof Indirect Proof Format: The Paragraph Proof	Draw conclusions from premises  Use deductive reasoning to prove basic theorems  Identify the essential parts of a two-column proof Rewrite statements in "It-then" form  Identify the appropriate figure for a proof  Identify the "given" information in a two-column proof  Identify the statement to prove in a two-column proof  Identify the statement to prove in a two-column proof  Describe several strategies for planning a proof  Match statements with reasons  Write the negation of a statement  Prove some simple statements using the indirect  method, or contradiction  Identify and describe acute, right, and obtuse angles
L12 L13 L14 L15 L16 L17	Using Deductive Reasoning Proof Formats: Statement of the Theorem Proof Formats: The Figure Proof Formats: The Given Information Proof Formats: To Prove Statement Proof Formats: The Plan of the Proof Indirect Proof Format: The Paragraph Proof ANGLES AND PARALLELS Angle Definitions	Draw conclusions from premises  Use deductive reasoning to prove basic theorems  Identify the essential parts of a two-column proof Rewrite statements in "if-then" form  Identify the appropriate figure for a proof  Identify the "given" information in a two-column proof  Identify the statement to prove in a two-column proof  Identify the statement to prove in a two-column proof  Describe several strategies for planning a proof  Match statements with reasons  Write the negation of a statement  Prove some simple statements using the indirect  method, or contradiction
L12 L13 L14 L15 L16 L17 3 GEOMETRY. L1	Using Deductive Reasoning Proof Formats: Statement of the Theorem Proof Formats: The Figure Proof Formats: The Given Information Proof Formats: To Prove Statement Proof Formats: The Plan of the Proof Indirect Proof Format: The Paragraph Proof ANGLES AND PARALLELS Angle Definitions Angle Measurement	Draw conclusions from premises  Use deductive reasoning to prove basic theorems  Identify the essential parts of a two-column proof Rewrite statements in "if-then" form  Identify the appropriate figure for a proof  Identify the appropriate figure for a proof  Identify the statement to prove in a two-column proof  Identify the statement to prove in a two-column proof  Describe several strategies for planning a proof  Match statements with reasons  Write the negation of a statement  Prove some simple statements using the indirect  method, or contradiction  Identify and describe acute, right, and obtuse angles  Name an angle and its parts  Use a protractor to measure angles  Find the sum of angle measures
L12 L13 L14 L15 L16 L17 3 GEOMETRY:	Using Deductive Reasoning Proof Formats: Statement of the Theorem Proof Formats: The Figure Proof Formats: The Given Information Proof Formats: To Prove Statement Proof Formats: The Plan of the Proof Indirect Proof Format: The Paragraph Proof ANGLES AND PARALLELS Angle Definitions	Draw conclusions from premises Use deductive reasoning to prove basic theorems Identify the essential parts of a two-column proof Rewrite statements in "if-then" form Identify the appropriate figure for a proof Identify the appropriate figure for a proof Identify the "given" information in a two-column proof Identify the statement to prove in a two-column proof Identify the statement to prove in a two-column proof Match statements with reasons Write the negation of a statement Prove some simple statements using the indirect method, or contradiction Identify and describe acute, right, and obtuse angles Name an angle and its parts Use a protractor to measure angles Find the sum of angle measures Define and identify adjacent angles Define and identify complementary angles Define and identify complementary angles Define and identify surplementary angles Define and identify surplementary angles
L12 L13 L14 L15 L16 L17 3 GEOMETRY. L1	Using Deductive Reasoning Proof Formats: Statement of the Theorem Proof Formats: The Figure Proof Formats: The Given Information Proof Formats: To Prove Statement Proof Formats: The Plan of the Proof Indirect Proof Format: The Paragraph Proof ANGLES AND PARALLELS Angle Definitions Angle Measurement	Draw conclusions from premises  Use deductive reasoning to prove basic theorems  Identify the essential parts of a two-column proof Rewrite statements in "if-then" form  Identify the appropriate figure for a proof  Identify the appropriate figure for a proof  Identify the appropriate figure for a proof  Identify the statement to prove in a two-column proof  Identify the statement to prove in a two-column proof  Describe several strategies for planning a proof  Match statements with reasons  Write the negation of a statement  Prove some simple statements using the indirect  method, or contradiction  Identify and describe acute, right, and obtuse angles  Name an angle and its parts  Use a protractor to measure angles  Tind the sum of angle measures  Define and identify adjacent angles  Define and identify complementary angles  Define and identify currical angles  Define and identify currical angles  Define and identify uvertical angles  Use theorems about adjacent, complementary,  supplementary and vertical angles to answer questions  and complete proofs
L12 L13 L14 L15 L16 L17 3 GEOMETRY: L1	Using Deductive Reasoning Proof Formats: Statement of the Theorem Proof Formats: The Figure Proof Formats: The Given Information Proof Formats: The Prove Statement Proof Formats: The Plan of the Proof Indirect Proof Format: The Paragraph Proof  ANGLES AND PARALLELS Angle Definitions Angle Measurement Relationship Definitions	Draw conclusions from premises Use adductive reasoning to prove basic theorems Identify the essential parts of a two-column proof Rewrite statements in "it-then" form Identify the appropriate figure for a proof Identify the appropriate figure for a proof Identify the statement to prove in a two-column proof Identify the statement to prove in a two-column proof Describe several strategies for planning a proof Match statements with reasons Write the negation of a statement Prove some simple statements using the indirect method, or contradiction  Identify and describe acute, right, and obtuse angles Name an angle and its parts Use a protractor to measure angles Find the sum of angle measures Define and identify complementary angles Define and identify complementary angles Define and identify vertical angles Define and identify vertical angles Use theorems about adjacent, complementary, supplementary and vertical angles to answer questions and complete proofs Use theorems about adjacent, complementary, supplementary and vertical angles to answer questions and complete proofs
L12 L13 L14 L15 L16 L17 3 GEOMETRY L1 L12 L3	Using Deductive Reasoning Proof Formats: Statement of the Theorem Proof Formats: The Figure Proof Formats: The Given Information Proof Formats: To Prove Statement Proof Formats: The Plan of the Proof Indirect Proof Format: The Paragraph Proof ANGLES AND PARALLELS Angle Definitions Angle Measurement Relationship Definitions Angle Relationship Theorems (1)	Draw conclusions from premises Use deductive reasoning to prove basic theorems Identify the essential parts of a two-column proof Rewrite statements in "if-then" form Identify the appropriate figure for a proof Identify the appropriate figure for a proof Identify the "given" information in a two-column proof Identify the statement to prove in a two-column proof Identify the statement to prove in a two-column proof Match statements with reasons  Write the negation of a statement Prove some simple statements using the indirect method, or contradiction  Identify and describe acute, right, and obtuse angles Name an angle and its parts Use a protractor to measure angles Find the sum of angle measures Define and identify adjacent angles Define and identify complementary angles Define and identify complementary angles Define and identify complementary angles Use theorems about adjacent, complementary supplementary and vertical angles to answer questions and complete proofs Use theorems about adjacent, complementary, supplementary, and vertical angles to answer questions supplementary and vertical angles to answer questions



1.0	Dagia Dramastica of Davallala	Define and describe properties of appellation of lines
L8	Basic Properties of Parallels	Define and describe properties of parallelism of lines
L9	Transversals and Special Angles	Define and describe properties of parallelism of planes Calculate angle measures using transversals Complete proofs by applying properties and theorems
	More Proofs: Transversals and	of tranversals
L10	Special Angles	Define and identify exterior and interior angles
	Continued Proofs: Transversals and	Complete proofs using your knowledge of transversals
L11	Special Angles	Define and identify exterior and interior angles
		Complete proofs using your knowledge of transversals  Practice proofs and questions that relate to parallels
L12	More Proofs for Postulates 9 and 10	and transversals  Construct a line that is perpendicular to another line at a
L13	Construction: Perpendiculars	given point
L14 L15	Construction: Tangents to Circle Construction: Parallels	Construct a line that is tangent to a circle at a given point
	Classifying Triangle by Sides and	Construct a line that is parallel to a given line
L16	Angles	Identify triangles as scalene, isosceles, or equilateral Identify triangles as acute, obtuse, or equiangular
L17	Exterior/Remote Interior Angles of Triangle	Define exterior and remote interior angles of a triangle
L18	Proofs Involving Triangles	Find the measures of exterior and remote interior angles Define corollary
		Define auxiliary line Prove theorems and corollaries using auxilliary lines
L19	Other Polygons	Categorize a shape as a polygon or non-polygon
		Identify different kinds of polygons Find the angle measures of polygons Apply properties of polygons to solve problems
4 GEOMETR	Y: CONGRUENT TRIANGLES AND QUAD	
L1	Defining Congruent Triangles	Define congruent triangles
		Identify corresoponding parts of congruent triangles Judge whether two triangles are congruent or not
L2	Proving Triangles Congruent (1)	Prove that triangles are congruent using side and angle postulates
L3	Proving Triangles Congruent (2)	Prove that triangles are congruent using side and angle postulates
		Prove that right triangles are congruent using the
L4	Proving Right Triangles Congruent	Hypotenuse-Leg Theorem Prove that angles are congruent using triangle
L5	Independent Triangles (1)	congruence theorems on non-overlapping triangles
		Prove that line segments are congruent using triangle congruence theorems on non-overlapping triangles
L6	Independent Triangles (2)	Prove that angles are congruent using triangle congruence theorems on non-overlapping triangles
		Prove that line segments are congruent using triangle congruence theorems on non-overlapping triangles
L7	Overlapping Triangles (1)	Prove that angles are congruent using triangle congruence theorems on overlapping triangles
		Prove that line segments are congruent using triangle congruence theorems on overlapping triangles
		Prove that angles are congruent using triangle
L8	Overlapping Triangles (2)	congruence theorems and properties of isosceles triangles
		Prove that line segments are congruent using triangle congruence theorems and properties of isosceles
		Prove that angles are congruent using triangle
L9	Isosceles Triangles (1)	congruence theorems Prove that line segments are congruent using triangle
		congruence theorems Prove that angles are congruent using properties of
		isosceles triangles Prove that line segments are congruent using properties
		of isosceles triangles
L10	Isosceles Triangles (2)	Prove that line segments are congruent using triangle congruence theorems  Prove that line segments are congruent using isosceles
		triangles Prove that angles are congruent using triangle
		congruence theorems Prove that angles are congruent using isosceles triangles
L11	Construction of Triangles 30-60-90	Construct 30-60-90 right triangles
L12	Construction of Triangles 45-45-90 Inequality Theorem in One Triangle	Construct 45-45-90 right triangles Use angle measures to prove when one side of a
L13	Part1 Inequality Theorem in One Triangle	triangle is longer than another side Use angle measures to prove when one side of a
L14	Part2	triangle is longer than another side  Determine when sides of two different triangles are
L15	Inequalities in Two Triangles	equal  Determine when one side of a triangle is greater than or less than another side
L16	Quadrilateral Parallelograms Theorems Part1	Use properties of parallelograms to prove statements
L17	Quadrilateral Parallelograms Theorems Part2	Use properties of parallelograms to prove statements
	Triangles that Use Parallelograms in	
118		
L18 L19 L20	Proofs Parallelograms: Rectangles Parallelograms: Rhombus	Use parallelograms to prove statements about triangles Prove statements involving the rectangle Prove statements involving the rhombus

Solve proportions in one variable, including in context of word problems  1.3 Properties of Proportions  1.4 Meaning of Similarity  1.5 Meaning of Similarity  1.6 Meaning of Similarity  1.7 Meaning of Similarity  1.8 Meaning of Similarity-Theorems  1.8 Meaning of Similarity-Theorems  1.9 Prove when triangles are similar riangles  1.1 Meaning of Similarity-Proofs  1.2 Meaning of Similarity-Proofs  1.3 Meaning of Similarity-Proofs  1.4 Meaning of Similarity-Proofs  1.5 Meaning of Similarity-Proofs  1.6 Meaning of Similarity-Proofs  1.7 Theorems-Similar Polygons  1.8 Theorems-Similar Polygons  1.9 Theorems-Special Segments in Find segment measure in triangles using specification of the proportions  1.9 Similar Right Triangles  1.9 Similar Right Triangles  1.9 Similar Right Triangles  1.0 The Pythagorean Theorem  1.0 Solve for missing sides of a right triangle to create proportions  1.0 The Pythagorean Theorem  1.0 Theorem about 30-60-90 Right  1.1 Triangles  1.1 Triangles  1.2 Triangles  1.2 Triangles  1.3 Using Triangles: Rectangular Solids  1.4 Using Triangles: Rectangular Solids  1.5 Using Triangles: Rectangular Solids  1.6 Trigonometry-Sine Ratio  1.7 Trigonometry-Cosine Ratio  1.8 Trigonometry-Cosine Ratio  1.9 Lea table of sine values to solve for a missi  1.1 Triangles missi riangles in Indirect  1.1 Trigonometry-Tangent Ratio  1.1 Trigonometry-Tangent Ratio  1.2 Lea table of cosine values to solve for a missi  1.3 Lea table of cosine values to solve for a missi  1.4 Dusing Trigonometry in Indirect  1.4 Measure  1.5 Lea table of cosine values to solve for a missi  1.6 Characteristics of Circles  1.7 Trigonometry-Tangent Ratio  1.8 Lea table of cosine values to solve for a missi  1.9 Lea table of sine values to solve for a missi  1.1 Characteristics of Spheres  1.2 Characteristics of Spheres  1.3 Tangents  1.4 Arcs  1.5 Chords  1.6 Theorems (1)  1.7 Theorems (2)  1.8 Theorems (2)  1.9 Lea rectangular triangles in Indirect  1.9 Lea table of the parts of a sphere  1.0 Calculate measures of parts of a circle  1	Use geometric figures to find a ratio roportions Know the definition of a proportion Identify the means and extremes of a proportion Solve proportions in one variable, including in the context of word problems Solve proportions in two variables Relate proportions to geometric figures Define similarity Identify similar triangles State key properties of similarity Identify similar triangles State key properties of similarity Prove when triangles are similar Know important facts about similar triangles Incomposition of the content of the conte	5 GEOMETRY:		
L2 Algebra Properties and Proportions L3 Properties of Proportions L5 Properties of Proportions L6 Properties of Proportions L6 Properties of Proportions L7 Properties of Proportions L8 Properties of Proportions L9 Properties of Similarity L6 Meaning of Similarity L6 Meaning of Similarity-Process L6 Meaning of Similarity-Protors L7 Prove when triangles are similar L8 Prove when triangles are similar L9 Prove when triangles about similar triangles L9 Similar Polygons L9 Similar Polygons L9 Similar Polygons L9 Similar Right Triangles L9 Solve for unknown segment measures L10 Theorem about 45-45-90 Right L11 Triangles L11 Triangles L12 Triangles L13 Using Triangles: Rectangular Solida L9 Using Triangles: Rectangular Solida L9 Solve for unknown segment measures L14 Pyramid L15 Trigonometry-Sine Ratio L9 State the sine ratio of a given angle L16 Trigonometry-Cosine Ratio L9 State the sine ratio of a given angle L17 Trigonometry-Tangent Ratio L9 State the sine ratio of a given angle L9 State the sine ratio of a given angle L9 State the sine ratio of a given angle L9 State the sine ratio of a given angle L9 State the sine ratio of a given angle L9 State the sine ratio of a given angle L9 State the sine ratio of a given angle L9 State the sine ratio of a	Use geometric figures to find a ratio roportions Know the definition of a proportion Identify the means and extremes of a proportion Solve proportions in one variable, including in the context of word problems Solve proportions in two variables Relate proportions to geometric figures Define similarity Identify similar triangles State key properties of similarity process Prove when triangles are similar Know important facts about similar triangles result from the solut similar polygons Use facts about similar polygons Use facts about similar polygons Use facts about similar polygons Ins in Find segment measure in triangles using special relationships and proportions Find the geometric mean of two numbers Use the altitude of a right triangle to create proportions Find the geometric mean of two numbers Use the altitude of a right triangle to create proportions Solve for unkown segment measures  M Solve for insign sides of a right triangle or not Right Find the side measures of right triangles by applying special properties of 30-60-90 right triangles Right Find the side measures of right triangles by applying special properties of 30-60-90 right triangles Right Find the side measures of right triangles by applying special properties of 30-60-90 right triangles Right Find the side measures of right triangles by applying special properties of 30-60-90 right triangles Use a table of sine values to solve for a missing value state the tangent ratio of a given angle Use a table of cosine values to solve for a missing value state the tangent ratio of a given angle Use a table of tongent values to solve for a missing value state the tangent ratio of a given angle Use a table of tongent values to solve for a missing value state the tangent ratio of a given angle Use a table of tangent values to solve for a missing value the definition of major and minor arcs use Identify and define the parts of a circle calculate measures of similar triangles to measure lengths indirectly lengths indirectly lengths indirectly Lengths indir			
L2 Algebra Properties and Proportions Know the definition of a proportion Identify the means and extremes of a proportion Solve proportions in one variable, including in context of word problems  L3 Properties of Proportions Solve proportions in two variables Relate proportions to geometric figures  L4 Meaning of Similarity  L5 Meaning of Similarity  L6 Meaning of Similarity Define similarity Identify similar triangles  L6 Meaning of Similarity-Theorems  L7 Meaning of Similarity-Proofs  L8 Meaning of Similarity-Proofs  L8 Meaning of Similarity-Proofs  L9 Meaning of Similarity-Proofs  L7 Theorems-Similar Polygons  L8 Theorems-Similar Polygons  L8 Theorems-Special Segments in Find segment measure in triangles using special segments in Find segment measure in triangles using special segments from the similar polygons  L9 Similar Right Triangles  L10 The Pythagorean Theorem  L10 The Pythagorean Theorem  L11 Triangles  L12 Triangles  L13 Theorem about 43-65-90 Right  L14 Triangles  L15 Triangles  Theorem about 45-45-90 Right  L16 Triangles: Rectangular Solids  Using Triangles: Rectangular Solids  Using Triangles: Regular Square  L14 Using Triangles: Regular Square  L15 Trigonometry-Sine Ratio  L16 Trigonometry-Sine Ratio  L17 Trigonometry-Cosine Ratio  L18 Measure  L19 Measure  Use a table of cosine values to solve for a missil  L19 Measure  Use a table of cosine values to solve for a missil  L10 Characteristics of Circles  L11 Characteristics of Spheres  L12 Characteristics of Spheres  L13 Tangents  L14 Arcs  L9 Define similarity  L9 Using Triangles in Indirect  L16 Characteristics of Spheres  L17 Characteristics of Spheres  L18 Measure  L19 Characteristics of Circles  L10 Characteristics of Circles  L11 Characteristics of Spheres  L12 Characteristics of Spheres  L14 Arcs  L9 Define and identify and define the parts of a piven angle  L19 Characteristics of Circles  L10 Characteristics of Circles  L11 Characteristics of Circles  L12 Characteristics of Spheres  L13 Tangents  L14 Arcs  L9 Define and identify and fine	roportions  Know the definition of a proportion Solve proportions in one variable, including in the context of word problems  Solve proportions in two variables Relate proportions to geometric figures Define similarity Identify similar triangles Define similarity Identify similar triangles State key properties of similarity Identify similar triangles Prove when triangles are similar Know important facts about similar triangles ofs Prove when triangles are similar Know important facts about similar polygons Use facts about similar polygons Use facts about similar polygons In define similarity to calculate side measures of similar polygons In find segment measure in triangles using special relationships and proportions Find the geometric mean of two numbers Use the altitude of a right triangle to create proportions Solve for unknown segment measures  Solve for missing sides of a right triangle Determine whether 3 segments form a right triangle or not Right Find the side measures of right triangles by applying special properties of 30-60-90 right triangles Determine whether 3 segments form a right triangle or not relationships are proportions of rectangular solids Find the side measures of right triangles by applying special properties of 43-65-90 right triangles Apply the Pythagorean theorem when solving for parts of rectangular solids Square Identify the parts of a regular square pyramid Apply the Pythagorean theorem to solve for a missing value Use a table of soine values to solve for a missing value State the cosine ratio of a given angle Use a table of sine values to solve for a missing value Identify and define the parts of a circle Calculate measures of parts of a circle Calculate measures of parts of a circle Calculate measures of trigonometric ratios to measure lengths indirectly Use properties of similar triangles to measure lengths indirectly Identify and define the parts of a sphere Calculate measures of parts of a circle Calculate measures of parts of a circle Calculate measures of ration of a piven a	L1	Algebra and Ratios	
Identify the means and extremes of a proportic   Solve proportions   Solve proportions in one variable, including in context of word problems   La	Identify the means and extremes of a proportion Solve proportions in one variables, including in the context of word problems  Solve proportions in two variables Relate proportions to geometric figures  Define similarity Identify similar triangles State key properties of similarity Identify similar triangles State key properties of similarity Prove when triangles are similar Know important facts about similar triangles of Prove when triangles are similar Know important facts about similar prolygons Use facts about similar polygons Use facts about similarity to calculate side measures of similar polygons Find segment measure in triangles using special relationships and proportions Find the geometric mean of two numbers  Use the altitude of a right triangle to create proportions Solve for unkown segment measures  m Solve for unkown segment measures  m Solve for unkown segment measures  petermine whether 3 segments form a right triangle or not  Right Find the side measures of right triangles by applying special properties of 30-60-90 right triangles Apply the Pythagorean theorem when solving for parts  dentify the parts of a regular square pyramid  Apply the Pythagorean theorem when solving for parts  dentify the parts of a regular square pyramid  Apply the Pythagorean theorem to solve for side lengths and other measures of a regular square pyramid  State the cosine values to solve for a missing value  Use a table of sine values to solve for a missing value  Use a table of cosine values to solve for a missing value  Use a table of tangent values to solve for a missing value  Use a table of tangent values to solve for a missing value  Use a table of tangent values to solve for a missing value  atio State the tangent fato of a given angle  Use a table of tangent values to solve for a missing value indirectly  Use properties of similar triangles to measure lengths indirectly  Use properties of a signent in triangles to	12	Algebra Properties and Proportions	Use geometric figures to find a ratio
Context of word problems  Solve proportions in two variables Relate proportions to geometric figures  L4 Meaning of Similarity  L5 Meaning of Similarity  L6 Meaning of Similarity-Theorems  State key properties of similarity  L6 Meaning of Similarity-Theorems  Frove when triangles are similar  Know important facts about similar triangles  L6 Meaning of Similarity-Proofs  Frove when triangles are similar  Know important facts about similar triangles  L7 Theorems-Similar Polygons  L8 Triangles  Theorems-Special Segments in  Theorems-Special Segments in  Theorems-Special Segments in  L8 Triangles  Theorems-Special Segments in  Theorems-Special Segments in  L9 Similar Right Triangles  Find the geometric mean of two numbers  L9 Similar Right Triangles  L10 The Pythagorean Theorem  L10 The Pythagorean Theorem  L10 Theorem about 40-60-90 Right  Triangles  L11 Theorem about 45-45-90 Right  Triangles  Theorem about 45-45-90 Right  L12 Triangles  Theorem about 45-45-90 Right  L13 Using Triangles: Rectangular Solids  Using Triangles: Regular Square  L14 Pyramid  L15 Trigonometry-Sine Ratio  L16 Trigonometry-Cosine Ratio  L17 Trigonometry-Cosine Ratio  L18 Measure  L19 Using Similar Triangles in Indirect  Measure  Use a table of sine values to solve for a miss  State the sine ratio of a given angle  Use a table of cosine values to solve for a miss  State the tangent ratio of a given angle  Use a table of cosine values to solve for a miss  State the tangent ratio of a given angle  Use a table of sine values to solve for a miss  State the tangent ratio of a given angle  Use a table of sone values to solve for a miss  State the tangent ratio of a given angle  Use a table of sine values to solve for a miss  State the tangent ratio of a given angle  Use a table of sine values to solve for a miss  State the tangent ratio of a given angle  Use a table of sine values to solve for a miss  State the tangent ratio of a given angle  Use a table of sine values to solve for a miss  State the tangent ratio of a given angle  Use a table of	context of word problems Solve proportions in two variables Relate proportions to geometric figures Define similarity Identify similar triangles State key properties of similarity Prove when triangles are similar Know important facts about similar triangles ofs Prove when triangles are similar Know important facts about similar triangles Ins Know facts about similar polygons Use facts about similar polygons Use facts about similar triangles are similar Ins find segment measure in triangles using special relationships and proportions Find segment measure in triangles using special relationships and proportions Find the geometric mean of two numbers Use the altitude of a right triangle to create proportions Solve for unkown segment measures  m Solve for unkown segment measures find the side measures of right triangle by applying special properties of 30-60-90 right triangles Prind the side measures of right triangles by applying special properties of 45-45-90 right triangles Apply the Pythagorean theorem when solving for parts of rectangular solids Square Identify the parts of a regular square pyramid Apply the Pythagorean theorem when solving for parts and other measures of a regular square pyramid State the cosine ratio of a given angle Use a table of cosine values to solve for a missing value io State the cosine ratio of a given angle Use a table of cosine values to solve for a missing value Identify and define the parts of a circle Calculate measures of parts of a precent of a right in triangles Identify and define the parts of a sphere Calculate measures of parts of a sphere Calculate measures of parts of a sphere Calculate measures of parts of a sphere Calculate measures and relate other basic shapes, such as circle and triangle, to solve problems involving spheres Know and identify tangent lines Apply properties of any or and minor arcs Use the definitions of major and minor a		Algebra i Toperties and i Toportions	
L3 Properties of Proportions Solve proportions in two variables Relate proportions to geometric figures L4 Meaning of Similarity L5 Meaning of Similarity L6 Meaning of Similarity-Theorems L6 Meaning of Similarity-Theorems L7 Meaning of Similarity-Proofs L7 Theorems-Similar Potygons L8 Theorems-Similar Potygons L9 Theorems-Similar Potygons L9 Theorems-Similar Potygons L9 Theorems-Similar Potygons L9 Theorems-Special Segments in Theorems-Similar Potygons L9 Theorems-Special Segments in Theorems-Special Segments-Special Segments-Speci	Solve proportions in two variables Relate proportions to geometric figures  Define similarity Identify similar triangles State key properties of similarity Prove when triangles are similar Know important facts about similar triangles ofs Prove when triangles are similar Know important facts about similar triangles IN sow facts about similar polygons Use facts about similar polygons Use facts about similar polygons Use facts about similar polygons In segment measure in triangles using special relationships and proportions Find the geometric mean of two numbers Use the altitude of a right triangle to create proportions Solve for unkown segment measures  Mean Solve for missing sides of a right triangle by applying special properties of 30-60-90 right triangles by applying special properties of 46-45-90 right triangles by applying special properties of a regular square pyramid  Apply the Pythagorean theorem to solve for a missing value at the cosine ratio of a given angle  Use a table of cosine values to solve for a missing value at the cosine ratio of a given angle  Use a table of triangl	1		Solve proportions in one variable, including in the
Relate proportions to geometric figures  L4 Meaning of Similarity Define similarity identify similar triangles State key properties of similarity L5 Meaning of Similarity-Theorems Frove when triangles are similar Know important facts about similar triangles L7 Theorems-Similar Polygons Frove when triangles are similar Know important facts about similar triangles L7 Theorems-Similar Polygons Theorems-Special Segments in L8 Triangles Thangles Theorems-Special Segments in L9 Similar Right Triangles Find segment measure in triangles using spec relationships and proportions L9 Similar Right Triangles Find the geometric mean of two numbers Use the altitude of a right triangle to create pn Solve for unkown segment measures L10 The Pythagorean Theorem Solve for misoning sides of a right triangle to reate pn Solve for misoning sides of a right triangle to reate pn Solve for misoning sides of a right triangle to reate pn Solve for misoning sides of a right triangle solve a special properties of 30-60-90 right triangles Theorem about 45-45-90 Right Triangles Theorem about 45-45-90 Right Triangles Theorem about 45-45-90 Right Triangles Segular Solds Using Triangles: Rectangular Solds Using Triangles: Rectangular Solds Using Triangles: Rectangular Solds Using Triangles: Rectangular Solds Using Triangles: Resular Square Pyramid  Apply the Pythagorean theorem when solving dentify the parts of a regular square pyramid Apply the Pythagorean theorem when solving dentify the parts of a regular square pyramid Apply the Pythagorean theorem when solving Use a table of sine values to solve for a missi State the sine ratio of a given angle Use a table of sine values to solve for a missi Use a table of sine values to solve for a missi State the tangent ratio of a given angle Use a table of sine values to solve for a missi Use a table of sine values to solve for a missi Use a table of sine values to solve for a missi Use a table of sine values to solve for a missi Use a table of sine values to solve for a missi Use a table of sine value	Relate proportions to geometric figures  Define similarity Identify similar triangles State key properties of similarity Frove when triangles are similar Know important facts about similar triangles ofs Prove when triangles are similar Know important facts about similar triangles Ins Know facts about similar polygons Use facts about similarity to calculate side measures of similar polygons Use facts about similarity to calculate side measures of similar polygons Find segment measure in triangles using special relationships and proportions Find the geometric mean of two numbers  Use the altitude of a right triangle to create proportions Solve for unknown segment measures  Move for missing sides of a right triangle or potential triangle of the potential of the po			context of word problems
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L4 Arcs Define and identify major and minor arcs Use the definitions of major and minor arcs to and arc measures  Prove theorems that relate to tangents, arcs, chords of a circle  Practice finding the measures of major and m Prove theorems that relate to tangents, arcs, chords of a circle  L6 Theorems (1) Practice finding the measures of major and m Prove theorems that relate to tangents, arcs, chords of a circle  Practice finding the measures of major and m Prove theorems that relate to tangents, arcs, chords of a circle	Define and identify major and minor arcs Use the definitions of major and minor arcs to find angle and arc measures Prove theorems that relate to tangents, arcs, and	Ì		Apply properties of tangent lines to answer questions
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and arc measures Prove theorems that relate to tangents, arcs, chords of a circle Practice finding the measures of major and m Prove theorems that relate to tangents, arcs, chords of a circle  Theorems (1) Practice finding the measures of major and m Prove theorems that relate to tangents, arcs, chords of a circle  Theorems (2) Practice finding the measures of major and m Prove theorems that relate to tangents, arcs, chords of a circle	and arc measures  Prove theorems that relate to tangents, arcs, and	L4	AICS	
L5 Chords Prove theorems that relate to tangents, arcs, chords of a circle  Practice finding the measures of major and m Prove theorems that relate to tangents, arcs, chords of a circle  Practice finding the measures of major and m Prove theorems that relate to tangents, arcs, chords of a circle  Practice finding the measures of major and m Prove theorems that relate to tangents, arcs, chords of a circle	Prove theorems that relate to tangents, arcs, and	Ì		
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Prove theorems that relate to tangents, arcs, chords of a circle  Practice finding the measures of major and m Prove theorems that relate to tangents, arcs, chords of a circle	chords of a circle	L5	Chords	
Prove theorems that relate to tangents, arcs, chords of a circle  Practice finding the measures of major and m Prove theorems that relate to tangents, arcs, chords of a circle	Deceller finally with a second of the second	Ì		Departure flexible with a second of the district of the distri
L6 Theorems (1) chords of a circle  Practice finding the measures of major and m  Prove theorems that relate to tangents, arcs, chords of a circle	Practice finding the measures of major and minor arcs			Practice finding the measures of major and minor arcs
Practice finding the measures of major and m Prove theorems that relate to tangents, arcs, the chords of a circle		1.6	Theorems (1)	
Prove theorems that relate to tangents, arcs, . L7 Theorems (2) chords of a circle	***************************************	1	(-/	
L7 Theorems (2) chords of a circle	Practice finding the measures of major and minor arcs			Practice finding the measures of major and minor arcs
			Th	
Practice finding the measures of cogments on	chords of a circle	L/	rneorems (2)	cnords of a circle
	Practice finding the measures of segments and angles	Ì		Practice finding the measures of segments and angles
L8 Special Angles Type 1 Identify and define inscribed and intercepted a	Identify and define inscribed and intercepted arcs	L8	Special Angles Type 1	Identify and define inscribed and intercepted arcs
Use properties of inscribed angles and interce	Use properties of inscribed angles and intercepted arcs	i l		Use properties of inscribed angles and intercepted arcs
to solve problems and complete proofs	to solve problems and complete proofs			to solve problems and complete proofs
L9 Special Angles Type 2 Identify angles formed by intersecting secants	Identify angles formed by intersecting secants Solve for angle and arc measures when secant lines	L9	Special Angles Type 2	solve for angle and are measures when secont lines
intersect inside a circle		i l		
Solve for angle and arc measures when seca	Solve for angle and arc measures when secant lines			Solve for angle and arc measures when secant lines
L10 Special Angles Type 3 intersect outside a circle	intersect outside a circle		Special Angles Type 3	intersect outside a circle
	Find the lengths of chords, secants, and tangents		opodiai / ingloo 1 / po o	
L12 Construction: Circles Construct a circle circumscribed by a triangle	Construct a circle circumscribed by a triangle Construct a circle circumscribing a triangle	L11	Special Segments	

7 GEOMETE	RY: AREA AND VOLUME	
		Recognize that polygons can be broken into non-
L1	Area Concepts of Polygons	overlapping triangles
L2	Area of Rectangles	Find the area of a polygon by breaking it into triangles Find the area of a rectangle
L3	Area of Parallelograms	Solve problems involving areas of rectangles Find the area of a parallelogram
L4	Area of Triangles and Rhombbuses	Solve problems involving areas of paralelograms Find the area of a triangle
		Find the area of a rhombus
L5 L6	Area of Trapezoids Area of Regular Polygons	Find the area of a trapezoid Define and identify regular polygons
		Find the area and other measures of regular polygons
L7	Area Comparison of Polygons	Find area and linear measures such as side length of regular polygons that are similar
L8	Construction: Polygons	Construct a rectangle, parallelogram, hexagon, and octagon
L9	Circles: Circumference and PI	Find the circumference of a circle when given the radius
L10	Circles: Area of Circles	Find the radius of a circle when given the circumference Find the area of a circle
		Find the area of a circle that is similar to another circle
L11	Circles: Area of Sectors	Find the area of a sector, or "slice" of a circle Find the arc length of a sector
L12	Circles: Area of Segments	Find the area of a segment of a circle Find the area of unusual shapes using the areas of
L13	Solids: Prisms	sectors and segments Find the surface area and volume of a prism
L14	Solids: Pyramids	Find the surface area and volume of a pyramid
L15	Solids: Cylinders	Find the surface area and volume of a cylinder
L16 L17	Solids: Cones Solids: Spheres	Find the surface area and volume of a cone Find the surface area and volume of a sphere
	•	Divide a segment into a given number of equal
L18	Construction: Dividing a Segment	segments Construct a line segment that is in proportion to the
L19	Construction: 4th Proportion	other three  Construct a line segment that is the geometric mean of
L20	Construction: Geometric Mean	two given line segments
	RY: COORDINATE GEOMETRY	Distriction
L1 L3	Ordered Pairs: Points in a Plane Graphs of Algebraic Sentences	Plot points on a coordinate plane Review and practice graphing linear equations
		Review and practice graphing linear inequalities
L4	Distance Formula	Review and practice using the distance formula to find the distance between two points Find the lengths and perimeters of geometric shapes by
L5	Equation of a Circle	using the distance formula Find equation for a circle in the coordinate plane
L6	Midpoint Formula	Find the midpoint of line segments
L7	Slope	Solve problems by using the midpoint formula  Calculate slope of a line
		Test points to determine whether they are collinear (on the same line)  Determine if lines are parallel, perpendicular, or neither
L8	Parallel and Perpendicular Lines	(skew) Use properties of lines to prove theorems
L9	Equations of Lines	Find the equation of a line given two points Find the equation of a line given a point and a slope
L10	Figures in the Coordinate Plane	Find properties and measures of shapes using the coordinate plane Use coordinate techniques to prove geometric
		statements Prove theorems about plane figures using coordinate
L11	Proofs with Coordinate Geometry (1)	geometry Prove theorems about plane figures using coordinate
L12	Proofs with Coordinate Geometry (2)	geometry
9 GEOMETR	RY: TRANSFORMATIONS	
9 GEOMETR	RY: TRANSFORMATIONS  Introduction: Rigid Motion, or Isometry	Define isometry and the three types of rigid motion Find the image points of a shape after a rigid motion
L1 L2	Introduction: Rigid Motion, or Isometry Isometry: Reflection	Find the image points of a shape after a rigid motion Find the image of a shape after a reflection
L1 L2 L3	Introduction: Rigid Motion, or Isometry  Isometry: Reflection Isometry: Translation	Find the image points of a shape after a rigid motion Find the image of a shape after a reflection Find the image of a shape after a translation
L1 L2	Introduction: Rigid Motion, or Isometry Isometry: Reflection	Find the image points of a shape after a rigid motion Find the image of a shape after a reflection Find the image of a shape after a translation Find the image of a shape after a rotation Tell the difference between a con
L1 L2 L3 L4	Introduction: Rigid Motion, or Isometry: Reflection Isometry: Reflection Isometry: Translation Isometry: Rotation  Dilation: Congruence and Similarity	Find the image points of a shape after a rigid motion Find the image of a shape after a reflection Find the image of a shape after a translation Find the image of a shape after a rotation Tell the difference between a contraction and an
L1 L2 L3 L4 L5	Introduction: Rigid Motion, or Isometry: Reflection Isometry: Translation Isometry: Translation Isometry: Rotation Dilation: Congruence and Similarity Product Transformation Inverse and Identity Transformation	Find the image points of a shape after a rigid motion Find the image of a shape after a reflection Find the image of a shape after a translation Find the image of a shape after a rotation Tell the difference between a contraction and an expansion Find the image of points after a dilation Find the result of combining multiple transformations Identify the inverse of a transformation
L1 L2 L3 L4 L5	Introduction: Rigid Motion, or Isometry: Reflection Isometry: Reflection Isometry: Rotation Isometry: Rotation Dilation: Congruence and Similarity Product Transformation	Find the image points of a shape after a rigid motion Find the image of a shape after a reflection Find the image of a shape after a translation Find the image of a shape after a totation Tell the difference between a contraction and an expansion Find the image of points after a dilation Find the image of points after a dilation Find the image of points after a dilation Find the provided of the provided in the provided Identify the inverse of a transformation Find points of symmetry Find lines of symmetry
L1  L2  L3  L4  L5  L6  L7  L8	Introduction: Rigid Motion, or Isometry: Reflection Isometry: Reflection Isometry: Translation Isometry: Rotation Dilation: Congruence and Similarity Product Transformation Inverse and Identity Transformation Symmetry	Find the image points of a shape after a rigid motion Find the image of a shape after a reflection Find the image of a shape after a retraction Find the image of a shape after a rotation Tell the difference between a contraction and an expansion Find the image of points after a dilation Find the result of combining multiple transformations Identify the inverse of a transformation Find points of symmetry
L1 L2 L3 L4 L5 L6 L7 L8	Introduction: Rigid Motion, or Isometry: Reflection Isometry: Reflection Isometry: Translation Isometry: Rotation Dilation: Congruence and Similarity Product Transformation Inverse and Identity Transformation Symmetry  IRY REVIEW	Find the image points of a shape after a rigid motion Find the image of a shape after a reflection Find the image of a shape after a retraction Find the image of a shape after a rotation Tell the difference between a contraction and an expansion Find the image of points after a dilation Find the result of combining multiple transformations Identify the inverse of a transformation Find points of symmetry Find lines of symmetry Find planes of symmetry
L1  L2  L3  L4  L5  L6  L7  L8  10 GEOMET  L1  L2	Introduction: Rigid Motion, or Isometry: Reflection Isometry: Reflection Isometry: Translation Isometry: Translation Dilation: Congruence and Similarity Product Transformation Inverse and Identity Transformation Symmetry RY REVIEW History of Geometry Geometry as a System	Find the image points of a shape after a rigid motion Find the image of a shape after a reflection Find the image of a shape after a translation Find the image of a shape after a translation Find the image of a shape after a totation Tell the difference between a contraction and an expansion Find the image of points after a dilation Find the result of combining multiple transformations Identify the inverse of a transformation Find points of symmetry Find lines of symmetry Find places of symmetry Find places of symmetry Find places of symmetry Find places of symmetry Review Unit 1 (Geometry: Introduction) Review Unit 2 (Geometry: Logic)
L1  L2  L3  L4  L5  L6  L7  L8  10 GEOMET  L1  L2  L3	Introduction: Rigid Motion, or Isometry: Reflection Isometry: Reflection Isometry: Rotation Dilation: Congruence and Similarity Product Transformation Inverse and Identity Transformation Symmetry  RY REVIEW History of Geometry Geometry Proofs	Find the image points of a shape after a rigid motion Find the image of a shape after a reflection Find the image of a shape after a translation Find the image of a shape after a translation Find the image of a shape after a tration Tell the difference between a contraction and an expansion Find the image of points after a dilation Find the result of combining multiple transformation Find the points of symmetry Find lines of symmetry Find lines of symmetry Find planes of symmetry  Review Unit 1 (Geometry: Introduction)  Review Unit 2 (Geometry: Logic)  Review Unit 2 (Geometry: Logic)
L1 L2 L3 L4 L5 L6 L7 L8 L1 L2 L3 L4 L5 L6 L7 L8 L1 L2 L3 L4 L4 L5 L4 L4 L5 L4 L4 L5 L4 L4 L5 L5 L5 L6 L7 L7 L8 L7 L8 L7 L8 L8 L8 L8 L8 L8 L8 L8 L8 L8 L8 L8 L8	Introduction: Rigid Motion, or Isometry: Reflection Isometry: Reflection Isometry: Translation Isometry: Translation Isometry: Rotation  Dilation: Congruence and Similarity Product Transformation Inverse and Identity Transformation Symmetry  History of Geometry Geometry as a System Geometry Proofs Angle Relationships and Parallelis Congruent Triangles and	Find the image points of a shape after a rigid motion Find the image of a shape after a reflection Find the image of a shape after a retraction Find the image of a shape after a rotation Tell the difference between a contraction and an expansion Find the image of points after a dilation Find the image of points after a dilation Find the result of combining multiple transformations Identify the inverse of a transformation Find points of symmetry Find lines of symmetry Find points of
L1	Introduction: Rigid Motion, or Isometry: Reflection Isometry: Reflection Isometry: Translation Isometry: Translation Dilation: Congruence and Similarity Product Transformation Inverse and Identity Transformation Symmetry  RY REVIEW History of Geometry Geometry Proofis Angle Relationships and Parallels Congruent Triangles and Quadrilaterals	Find the image points of a shape after a rigid motion Find the image of a shape after a reflection Find the image of a shape after a translation Find the image of a shape after a translation Find the image of a shape after a rotation Tell the difference between a contraction and an expansion Find the image of points after a dilation Find the result of combining multiple transformations identify the inverse of a transformation Find points of symmetry Find lines of symmetry Find planes of symmetry  Review Unit 1 (Geometry: Introduction)  Review Unit 2 (Geometry: Logic)  Review Unit 3 (Geometry: Logic)  Review Unit 4 (Geometry: Congruent Triangles and Quadrilaterals)
L1	Introduction: Rigid Motion, or Isometry: Reflection Isometry: Reflection Isometry: Translation Isometry: Translation Isometry: Rotation  Dilation: Congruence and Similarity Product Transformation Inverse and Identity Transformation Symmetry  History of Geometry Geometry as a System Geometry Proofs Angle Relationships and Parallelis Congruent Triangles and	Find the image points of a shape after a rigid motion Find the image of a shape after a reflection Find the image of a shape after a reflection Find the image of a shape after a retraction Find the image of a shape after a rotation Tell the difference between a contraction and an expansion Find the image of points after a dilation Find the image of points after a dilation Find the result of combining multiple transformations Identify the inverse of a transformation Find points of symmetry Find lines of symmetry Find planes of symmetry Review Unit 1 (Geometry: Introduction) Review Unit 2 (Geometry: Logic) Review Unit 3 (Geometry: Logic) Review Unit 3 (Geometry: Angles and Parallels) Review Unit 4 (Geometry: Congruent Triangles and

## Unit Number Lesson Title and Title

### **Lesson Objectives**

1 ALGEBRA	A II - SET, STRUCTURE, AND FUNCTION	
L1	Properties of Sets	Find the subsets of a set
	.,	Count the number of elements in a set
L2	Operations of Sets	Find the intersection of two sets
	·	Find the union of two sets
L3	Structure: Axioms	Review the axioms and properties of Algebra
		Review the mathematical operations (+, -, *, /)
L4	Structure: Applications	Review the distributive property and order of operations
L-7	Structure. Applications	Identify functions and relations, and tell the difference
L5	Relations and Functions: Definitions	between them
	Rolations and Fanotions. Dominions	Find the domain and range of a function
		Determine whether or not a given graph represents a
L6	Relations and Functions: Graphs	function
	residence and ranshers. Graphic	Match a set of ordered pairs with its graph
	Relations and Functions: Function	
L7	Notation	Evaluate a function at any point
L8	Relations and Functions: Inverses	Find the inverse of a function or set of ordered pairs
	Algebraic Expressions: Exponents	•
L9	Part 1	Write exponents in expanded (non-exponential) form
	Algebraic Expressions: Exponents	Evaluate expressions, including negative and zero
L9a	Part 2	exponents
		Review exponent rules for multiplication and division of
L10	Multiplication and Division Part 1	like bases
		Review exponent rules for multiplication and division of
L10a	Multiplication and Division Part 2	like bases
	Exponents of Exponential	
L11	Expressions	Review exponent rules for exponentiation of powers
	Algebraic Expressions: Combining	Review the process of simplifying expressions and
L12	Terms	combining like terms
2 ALGEBRA	A II - NUMBERS, SENTENCES, AND PROB	BLEMS
L1	Number Order and Absolute Value	Solve absolute value equations
<u> </u>	Tambor Order and Abbordto Value	Use equal, greater than, and less than signs to order
		numbers
L2	Sums and Products	Review addition and multiplication of signed numbers
		Review and practice solving linear equations with the
L3	Solving Equations	addition property
		Review and practice solving linear equations with the
L4	Multiplication Property	multiplication property
		Solve linear equations using both multiplication and
L5	Multi-step Equations	addition properties
	· ·	Solve equations with parentheses by using the
L6	Equations with Parentheses	distributive property

L7	Literal Expressions	Substitute values to evaluate literal expressions
		Solve literal equations
L8	Solving Inequalities	Solve linear equalities
		Differentiate between the multiplication property of
		inequality and the multiplication property of equality
	Graphing Solution Sets for	
L9	Inequalities	Graph the solution sets for inequalities
L10	Compound Sentences	Solve absolute value inequalities
		Graph compound inequalities
L11	Number Problems	Solve word problems with whole numbers
L12	Motion Problems	Solve problems involving rate, distance, and time
L13	Miscellaneous Problems	Solve practical real-world problems

## 3 ALGEBRA II - LINEAR EQUATIONS AND INEQUALITIES

L1	Line Graphs	Evaluate two-variable equations and find ordered pairs
		Identify linear and nonlinear equations
L2	Line Graphs by Two Points	Graph linear equations
		Determine if two lines are parallel, perpendicular, or
		skew
L3	Slope of Lines Part 1	Compute the slope of a line
L4	Slope of Lines Part 2	Use the slope of a line to calculate missing coordinates
		Find collinear points
		Use the point-slope technique to find the equation of a
L5	Equations: Point Slope Part 1	line from its graph
		Use the point-slope technique to find the equation of a
L5b	Equations: Point Slope Part 2	line from its graph
		Find the equation of a line when given two points on the
L5c	Equations: Point Slope Part 3	line
L6	Equations: Slope-Intercept	Write equations of a line in slope-intercept form
L7	General Equation of a Line	Write linear equations in general form
		Find the x and y intercepts by inspecting the general
		form of a line
		Solve a system of two equations using graphical
L8	Solutions for Systems of Equations	methods
		Solve a system of two equations by using the addition
L9	Solutions by Addition	property of equality
	Solutions by Multiplication and	Solve a system of two equations by using the addition
L10	Addition	and multiplication properties of equality
		Solve a system of two equations by using the
L11	Solutions by Substitution	substitution property of equality
		Apply your knowlegde of systems of equations to
L12	Application of Systems of Equations	solving word problems
L13	Solving Inequalities	Graph the solution sets for linear inequalities
L14	Solving Two-order Inequalities	Graph the solution sets for linear inequalities

4 ALGEBRA II	- POLYNOMIALS	
L1	Products and Factoring	Simplify product expressions
	Multiplying Polynomials by	
L1a	Polynomials	Multiply binomials and trinomials
	· Orymonials	Find special products such as the perfect square
L2	Using Special Products Part 1	trinomial
<u> </u>	came abassas and	Find the difference of two squares
L2a	Using Special Products Part 2	Find the product of the sum of two perfect cubes
	3 1	·
		Find the product of the difference of two perfect cubes
L3	Factoring Trinomials	Factor trinomials
L4	Factoring Special Products Part 1	Factor trinomials using the difference of two squares
L4a	Factoring Special Products Part 2	Factor trinomials using the difference of two cubes
L5	Addition and Subtraction Operations	Add and subtract polynomials
L6	Division with Polynomials	Perform long division of polynomials
		Use shorthand 'synthetic' division to divide two
L7	Synthetic Division	polynomials
		Solve word problems that involve direct variation of two
L8	Direct Variation	quantities
		Solve word problems that involve inverse variation of
L9	Inverse Variation	two quantities
		Solve word problems that involve joint or combined
L10	Joint and Combined Variation	variation of three quantities
5 41 6500 4 11		
5 ALGEBRA II	- ALGEBRAIC FRACTIONS	
	Multiplying and Dividing with	
L1	Fractions	Simplify algebraic expressions
		Evaluate algebraic expressions
L2	Reducing Rational Expressions	Simplify algebraic expressions
		Reduce fractions
L3	Multiplying Algebraic Fractions	Multiply algebraic expressions
L4	Dividing Algebraic Fractions	Divide algebraic expressions
	Adding and Subtracting Algebraic	
L5	Fractions	Find the common denominator of algebraic fractions
		Add and subtract fractions
L6	Addition and Subtraction	Add and subtract algebraic fractions
l	Mixed Expressions and Complex	
L7	Fractions	Change mixed numbers to simple algebraic fractions
		Change complex fractions to simple algebraic fractions
L8	Equations with Fractions	Solve equations that contain algebraic fractions
	Equations with Flactions	Corro oquations that contain algebraic fractions

L9 Fractional Equations denominator of a fraction Solve proportions of algebraic equations that have one variable Use skills of working with algebraic fractions to solve word problems L12 Mixture Problems Solve mixture problems Solve problems that involve the measurements of 'Work' energy  6 ALGEBRA II - REAL NUMBERS L1 Real Numbers Identify a number as Rational or Irrational Write the fractional equivalent of a Rational decimal number Change a radical expression to the equivalent expression with fractional exponents Evaluate and simplify radical expressions and fractional exponent expressions L3 Conjugates Define a conjugate Use conjugates to rationalize the denominator of an algebraic expression Determine whether or not a radical equation has solution(s) L4 Radical Equations Solve quadratic equations L5 Quadratic Equations Solve quadratic equations by the factoring method L7 Completing the Square Solve quadratic equations by completing the square L8 Quadratic Formula Derive the quadratic formula to solve quadratic equations Solve word problems by setting up and solving a quadratic equation using the quadratic formula Determine the sum and product of the roots of a quadratic equation Solve for the missing root of a quadratic equation Find the discriminant of a quadratic equation			Solve equations that contain variables in the
Solve proportions of algebraic equations that have one variable	L9	Fractional Equations	
L10 Proportions Variable Use skills of working with algebraic fractions to solve word problems L12 Mixture Problems Solve mixture problems  L13 Work Problems Solve problems that involve the measurements of Work' energy  6 ALGEBRA II - REAL NUMBERS  L1 Real Numbers Identify a number as Rational or Irrational Write the fractional equivalent of a Rational decimal number  Change a radical expression to the equivalent expression with fractional exponents Evaluate and simplify radical expressions and fractional exponent expressions  L3 Conjugates Define a conjugate Use conjugates to rationalize the denominator of an algebraic expression  Determine whether or not a radical equation has solution(s)  L4 Radical Equations Solve quadratic equations by the factoring method  L7 Completing the Square Solve quadratic equations by the factoring method  L7 Completing the Square Solve quadratic equations by setting up and solving a quadratic equation is governable.  Word Problems Using the Quadratic Solve over problems by setting up and solving a quadratic equation using the quadratic formula  Determine the sum and product of the roots of a quadratic equation Solve of the missing root of a quadratic equation  End Sum and Product of Roots Solve in the missing root of a quadratic equation  Find the discriminant of a quadratic equation			
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L11 Applications of Fractions L12 Mixture Problems Solve mixture problems Solve problems that involve the measurements of 'Work' energy  6 ALGEBRA II - REAL NUMBERS L1 Real Numbers Identify a number as Rational or Irrational Write the fractional equivalent of a Rational decimal number Change a radical expression to the equivalent expression with fractional exponents Evaluate and simplify radical expressions and fractional exponent expressions L3 Conjugates Define a conjugate Use conjugates to rationalize the denominator of an algebraic expression Determine whether or not a radical equation has solution(s) L4 Radical Equations Define a conjugate oxpression Determine whether or not a radical equation has solution(s) L5 Quadratic Equations Solve quadratic equations by the factoring method L7 Completing the Square Derive the quadratic equations by completing the square L8 Quadratic Formula Derive the quadratic formula to solve quadratic equations Solve word problems by setting up and solving a quadratic equation using the quadratic formula Determine the sum and product of the roots of a quadratic equation Solve for the missing root of a quadratic equation L10 Sum and Product of Roots Find the discriminant of a quadratic equation		. roportion	
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L13 Work Problems 'Work' energy  6 ALGEBRA II - REAL NUMBERS  L1 Real Numbers Identify a number as Rational or Irrational Write the fractional equivalent of a Rational decimal number  Change a radical expression to the equivalent expression with fractional exponents  Evaluate and simplify radical expressions and fractional exponent expressions with fractional expressions and fractional exponent expressions  L3 Conjugates Define a conjugate  Use conjugates to rationalize the denominator of an algebraic expression  Determine whether or not a radical equation has solution(s)  L5 Quadratic Equations Solve quadratic equations  L6 Factoring Quadratic Equations Solve quadratic equations by the factoring method  L7 Completing the Square Solve quadratic equations by completing the square  L8 Quadratic Formula Derive the quadratic formula to solve quadratic equations  Word Problems Using the Quadratic  Use the quadratic formula to solve quadratic equations  Vord Problems Using the Quadratic Solve word problems by setting up and solving a quadratic equation using the quadratic formula  Determine the sum and product of the roots of a quadratic equation  Solve for the missing root of a quadratic equation  Find the discriminant of a quadratic equation	L12		Solve mixture problems
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L2 Law of Radicals  Evaluate and simplify radical expressions and fractional exponents  Evaluate and simplify radical expressions and fractional exponent expressions  L3 Conjugates  Define a conjugate  Use conjugates to rationalize the denominator of an algebraic expression  Determine whether or not a radical equation has solution(s)  L4 Radical Equations  Determine whether or not a radical equation has solution(s)  L5 Quadratic Equations  Solve quadratic equations  L6 Factoring Quadratic Equations  Solve quadratic equations by the factoring method  L7 Completing the Square  Solve quadratic equations by completing the square  L8 Quadratic Formula  Derive the quadratic formula  Use the quadratic formula to solve quadratic equations  Solve word problems by setting up and solving a quadratic equation using the quadratic formula  Determine the sum and product of the roots of a quadratic equation  Solve for the missing root of a quadratic equation  Find the discriminant of a quadratic equation	L1	Real Numbers	Identify a number as Rational or Irrational
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Exponent expressions  L3 Conjugates  Define a conjugate Use conjugates to rationalize the denominator of an algebraic expression  Determine whether or not a radical equation has solution(s)  L4 Radical Equations Solve quadratic equations  L5 Quadratic Equations Solve quadratic equations  L6 Factoring Quadratic Equations Solve quadratic equations by the factoring method  L7 Completing the Square Solve quadratic equations by completing the square  L8 Quadratic Formula  Derive the quadratic formula to solve quadratic equations  Word Problems Using the Quadratic Solve word problems by setting up and solving a quadratic equation using the quadratic formula  Determine the sum and product of the roots of a quadratic equation  Solve for the missing root of a quadratic equation  Find the discriminant of a quadratic equation	L2	Law of Radicals	expression with fractional exponents
L3 Conjugates  Define a conjugate Use conjugates to rationalize the denominator of an algebraic expression  Determine whether or not a radical equation has solution(s)  L4 Radical Equations  L5 Quadratic Equations  L6 Factoring Quadratic Equations  Solve quadratic equations by the factoring method  L7 Completing the Square  Solve quadratic equations by completing the square  L8 Quadratic Formula  Derive the quadratic formula to solve quadratic equations  Word Problems Using the Quadratic  Solve word problems by setting up and solving a quadratic equation using the quadratic formula  Determine the sum and product of the roots of a quadratic equation  Solve for the missing root of a quadratic equation  Find the discriminant of a quadratic equation			Evaluate and simplify radical expressions and fractional
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algebraic expression  Determine whether or not a radical equation has solution(s)  L5 Quadratic Equations Solve quadratic equations  L6 Factoring Quadratic Equations Solve quadratic equations by the factoring method  L7 Completing the Square Solve quadratic equations by completing the square  L8 Quadratic Formula Derive the quadratic formula to solve quadratic equations  Word Problems Using the Quadratic Solve word problems by setting up and solving a quadratic equation using the quadratic formula  Determine the sum and product of the roots of a quadratic equation Solve for the missing root of a quadratic equation  E10 The Discriminant Find the discriminant of a quadratic equation	L3	Conjugates	Define a conjugate
Determine whether or not a radical equation has solution(s)  L5 Quadratic Equations Solve quadratic equations  L6 Factoring Quadratic Equations Solve quadratic equations by the factoring method  L7 Completing the Square Solve quadratic equations by completing the square  L8 Quadratic Formula Derive the quadratic formula  Use the quadratic formula to solve quadratic equations  Word Problems Using the Quadratic Solve word problems by setting up and solving a quadratic equation using the quadratic formula  Determine the sum and product of the roots of a quadratic equation  Solve for the missing root of a quadratic equation  Find the discriminant of a quadratic equation			Use conjugates to rationalize the denominator of an
L4 Radical Equations solution(s)  L5 Quadratic Equations Solve quadratic equations  L6 Factoring Quadratic Equations Solve quadratic equations by the factoring method  L7 Completing the Square Solve quadratic equations by completing the square  L8 Quadratic Formula Derive the quadratic formula  Use the quadratic formula to solve quadratic equations  Word Problems Using the Quadratic Solve word problems by setting up and solving a quadratic equation using the quadratic formula  Determine the sum and product of the roots of a quadratic equation  Solve for the missing root of a quadratic equation  Find the discriminant of a quadratic equation			algebraic expression
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L6 Factoring Quadratic Equations Solve quadratic equations by the factoring method L7 Completing the Square Solve quadratic equations by completing the square L8 Quadratic Formula Derive the quadratic formula  Use the quadratic formula to solve quadratic equations Word Problems Using the Quadratic Solve word problems by setting up and solving a quadratic equation using the quadratic formula Determine the sum and product of the roots of a quadratic equation Solve for the missing root of a quadratic equation  The Discriminant Find the discriminant of a quadratic equation		Radical Equations	solution(s)
L7 Completing the Square L8 Quadratic Formula  Use the quadratic formula to solve quadratic equations Word Problems Using the Quadratic Solve word problems by setting up and solving a quadratic equation using the quadratic formula  Determine the sum and product of the roots of a quadratic equation Solve for the missing root of a quadratic equation  The Discriminant  Find the discriminant of a quadratic equation			
L8 Quadratic Formula  Use the quadratic formula to solve quadratic equations  Word Problems Using the Quadratic  Solve word problems by setting up and solving a quadratic equation using the quadratic formula  Determine the sum and product of the roots of a quadratic equation  Solve for the missing root of a quadratic equation  The Discriminant  Find the discriminant of a quadratic equation			Solve quadratic equations by the factoring method
Use the quadratic formula to solve quadratic equations  Word Problems Using the Quadratic  Solve word problems by setting up and solving a quadratic equation using the quadratic formula  Determine the sum and product of the roots of a quadratic equation  Solve for the missing root of a quadratic equation  The Discriminant  Find the discriminant of a quadratic equation			
Word Problems Using the Quadratic L9 Formula Quadratic equation using the quadratic formula Determine the sum and product of the roots of a quadratic equation Solve for the missing root of a quadratic equation  The Discriminant Find the discriminant of a quadratic equation	L8	Quadratic Formula	Derive the quadratic formula
Word Problems Using the Quadratic L9 Formula Quadratic equation using the quadratic formula Determine the sum and product of the roots of a quadratic equation Solve for the missing root of a quadratic equation  The Discriminant Find the discriminant of a quadratic equation			
L9 Formula quadratic equation using the quadratic formula  Determine the sum and product of the roots of a quadratic equation  Solve for the missing root of a quadratic equation  The Discriminant Find the discriminant of a quadratic equation			
Determine the sum and product of the roots of a quadratic equation  Solve for the missing root of a quadratic equation  The Discriminant  Find the discriminant of a quadratic equation		Word Problems Using the Quadratic	
L10 Sum and Product of Roots quadratic equation Solve for the missing root of a quadratic equation L11 The Discriminant Find the discriminant of a quadratic equation	L9	Formula	
Solve for the missing root of a quadratic equation  The Discriminant  Find the discriminant of a quadratic equation			
L11 The Discriminant Find the discriminant of a quadratic equation	L10	Sum and Product of Roots	
	L11	The Discriminant	
			Use the discriminant to determine what kinds of
solutions a quadratic equation has			
L12 Imaginary Numbers Simplify imaginary expressions	L12	Imaginary Numbers	
Simplify complex numbers			Simplify complex numbers

		Use the distance formula to find the distance between
L1	Distance Formula	two points
L2	Circle	Find the radius of a circle from its equation
		Find the center of a circle from its equation
		Write the equation of a circle, given its center and
		radius
L3	Ellipse	Find the length of the major axis of an ellipse
		Find the length of the minor axis of an ellipse
L4	Ellipse Continued	Find the equation of an ellipse
		Graph an ellipse given an equation
		Find the foci of an ellipse
L5	Conic Sections: Parabola	Graph a parabola
		Find the directrix of a given parabola
		Find the focus of a given parabola

01-1		
L6 Conic S	Sections: Parabola Continued	Determine the direction in which a parabola opens
		Find the quadrant(s) in which a parabola resides
L7 Conic S	Sections: Hyperbola	Graph a hyperbola
	31	Write the equation of a hyperbola
L8 Conic S	Sections: Hyperbola Continued	Find the equation of a hyperbola
		Graph a hyperbola
I O I dantif.	dan Cania Cantina	Identify a quadratic equation as a circle, parabola,
	ying Conic Sections ns of Equations	hyperbola, or ellipse
	ns of Inequalities	Solve a system of equations  Graph the solution to a system of inequalities
LTT System	is of friequalities	Find the equation of a hyperbola that represents a
L12 Applica	ations of Conic Sections	physical situation
7,551100	diene or come content	Find the equation of a conic section that represents a
L13 Applica	ations Continued	physical situation
7.65.00		Find the equation of a hyperbola that represents a
L14 Applica	ations Continued Again	physical situation
		Find the conic section that represents a given physical
L15 Consta	ant of Proportionality	situation
	•	
8 ALGEBRA II - EXPONE	ENTIAL FUNCTIONS	
L1 Expone	ential Functions	Evaluate exponential functions
r ·		Simplify exponential functions
L2 Fractio	nal Exponents	Evaluate expressions with fractional exponents
	·	Simplify expressions with fractional exponents
	ential Equations	Solve exponential equations
L4 Graphi	ng Exponential Functions	Complete ordered pairs for an exponential function
		Solve application word problems with exponential
L5 Expone	ential Applications	equations
10		
L6 Logarit	thmic Functions	Express an exponential equation in logarithmic form
I Z Fralisa	tion of Longwithman	Express a logarithmic function in exponential form
L7 Evalua L8 Mantis	tion of Logarithms	Evaluate logarithmic functions Find common logarithms
LO IVIAITUS	545	Find Common logarithms
		Use the mantissa to evaluate logarithmic expressions
		Use the properties of logarithms to rewrite a logarithmic
L9 Genera	al Properties of Logarithms	expression in a different form
	fic Notation	Express decimal numbers in scientific notation
L11 Calcula	ation of Common Logarithms	Use tables to evaluate common logarithms
	•	Use tables to evaluate an antilog
L12 Graphs	s of Logarithmic Functions	Complete ordered pairs for a logarithmic function
		Graph a logarithmic function
L13 Compu	utation with Logarithms	Compute mathematical expressions using logarithms
		Solve equations using properties of logarithms
	thmic Applications	Solve word problems using logarthmic functions
L15 Matrice	es es	Identify entries in a matrix by row and column
L16 System	n Solutions with Matrices	Use the matrix method to solve a system of equations
	Coldiono with Matrices	200 and matrix motified to bolive a system of equations
L17 Additio	n and Multiplication of Matrices	Perform addition of matrices
, idailio	production of maniood	Perform subtraction of matrices
		Use matrices to interpret situations and solve
L18 Interpre	etations Using Matrices	application problems
	-	

9 ALGEBRA II - COUNTING PRINCIPLES  L1 Progressions: Sequences Indicate the general term of a Find the nth term in a sequence  L2 Progressions: Series Differentiate between a finite Differentiate between an arith series	•
L2 Progressions: Series Find the nth term in a sequen  Differentiate between a finite  Differentiate between an arith	-
L2 Progressions: Series Differentiate between a finite Differentiate between an arith	nce
Differentiate between an arith	
	· ·
L3 Permutations: Factorials Evaluate factorial expressions	S
L4 Permutation Formula Define permutation	
Calculate the number of perm	nutations of r elements
from a set of n elements	
L5 Permutations: Applications Use permutations to solve ap	plication problems
Calculate the number of comb	binations of r elements
L6 Combination Formula from a set of n elements	
L7 Combinations: Applications Use combinations to solve ap	pplication problems
L8 Combinations: Binomial Coefficients Find powers of binomials with	n Pascal's triangle
Demonstrate knowledge of th	ne pattern of Pascal's
triangle	
L9 Probability: Concepts Explore the uses and limitation	
Calculate probabilities in sing	le-step experiments
L10 Probability: Equally Likely Outcomes Define the counting principle	
Use the counting principle to	calculate the probability of
complex events	
L11 Probability: Multiplication Principle Define independent and depe	
Use the multiplication principl	
probability of complex events	
Use conditional probability to	calculate the probability of
L12 Conditional Probability events	
10 ALGEBRA II - REVIEW	
L1 Integers Restate the axioms of algebra	a
Identify terms about graphing	functions
L2 Integers Continued Find the intersection and unio	on of sets
Evaluate functions	
Simplify exponential expression	ons, including exponential
expressions	
L3 Open Sentences Restate axioms and terms of	algebra
Simplify numerical expression	ns, including absolute
value	
L4 Open Sentences Continued Solve linear equations and inc	equalities
Solve absolute value equation	
L5 Graphs Restate definitions of graphin	g
Find the equation of a line	
Write the equation of a line in	standard form
L6 Graphs Continued Graph linear equations	
Solve a system of linear equa	ations
Graph linear inequalities	
Solve word problems with sys	stems of equations
L7 Polynomials Find the product of polynomia	al expressions

L8	Polynomials Continued	Factor polynomials
	. o.yoa.o coaca	Divide polynomials by long division
		Divide polynomials with synthetic division
		Add and subtract polynomials
		Solve direct and joint variation problems
L9	Algebraic Fractions Part 1	Simplify algebraic expressions
	, agestale i rachene i alt i	Find the exclusions for a rational expression
L10	Algebraic Fractions Part 2	Add and subtract rational expressions
		Multiply and divide rational expressions
L10a	Algebraic Fractions Part 3	Simplify mixed expressions
	<u> </u>	Simplify complex expressions
		Solve equations with mixed and complex expressions
L11	Real Numbers	Simplify radical expressions
		Solve radical equations
L12	Real Numbers Continued	Solve quadratic equations
		Solve quadratic equations by completing the square
		Solve quadratic equations by the quadratic formula
		Simplify complex and imaginary expressions
L13	Quadratic Relations and Systems	Identify the type of conic section from its equation
L14	Quadratics Continued	Identify the equation of a conic section
		Identify the coordinates of characteristics of conic
		sections
		Solve systems of quadratic and linear equations
L15	Exponential Functions	Add and subtract matrices
		Simplify expressions with zero and negative exponents
		Graph exponential equations
L16	Exponential Functions Continued	Evaluate logarithms
		Write exponential equations in logarithmic form
		Multiply matrices
		Solve a system of linear equations
L17	Counting Principles	Find the nth term of a sequence
		Identify a sequence as arithmetic or geometric
		Identify a series as finite or infinite
L18	Counting Principles Continued	Calculate permutions and combinations
		Represent a series as a summation
		Find probabilities
		Find conditional probabilities

# Unit Number and Title

**Lesson Title** 

## **Lesson Objectives**

1 PRECAL	CULUS: RELATIONS AND FUNCTIONS	
L1	Ordered-Pair Numbers: Relations	List the domain and range of a given relation Find or complete ordered pairs of a given relation
L2	Ordered-Pair Numbers: Functions	List the domain and range of a given function
		Find or complete ordered pairs of a given function
	Ordered-Pair Numbers: Rules of	Determine whether a set of ordered pairs represents
L3	Corres.	a linear or quadratic function
		Find the rule for a function or relation when given a
		set of ordered pairs
		Know the difference between the dependent and
L4	Algebra of Functions: Notation	independent variable
		Evaluate functions at different domain values
L5	Algebra of Functions: Arithmetic	Add, subtract, multiply, and divide functions
L6	Algebra of Functions: Composition	Write the composition of two functions
		Evaluate a function whose domain is another function
L7	Algebra of Functions: Inverse	Find the inverse of a function
2 PRECAL	CULUS: FUNCTIONS	
L1	Linear Functions: Graphs	Graph functions
	•	Find the 'roots' of functions
		Find the x- and y-intercepts
L2	Linear Functions: Equations	Find the slope of a linear equation
	·	Write the function that satisfies given conditions
L3	2nd-Degree Functions: Solutions	Solve quadratic equations by factoring
		Solve quadratic equations with the Quadratic Formula
	Relationships Between Zeros and	Determine the types of solutions of a quadratic
L4	Coefficients	equation
		Find missing information about quadratics by using
		the relationships of coefficients and roots
		Graph quadratic equations
L5	Quadratic Inequalities	Solve quadratic inequalities
		Graph quadratic inequalities
L6	Polynomial Functions	Use synthetic division to divide polynomials
		Determine if one polynomial is a factor of another
L7	Nth-Degree Equations	Find the roots of polynomial functions
		Find upper and lower limits for the roots of polynomial
		functions
L8	Greatest Integer Function	Graph the greatest integer function
L9	Exponential Function	Graph the exponential function
L10	Logarithmic Function	Graph a logarithmic function
		Find the inverse of a logarithmic function
L11	Function Combinations	Graph compositions of functions

3 PRECAL	CULUS: TRIGONOMETRIC FUNCTION	IS
	Definition of the Trigonometric	
L1	Functions	Know basic properties of the trigonometric functions
		Name and define the trigonometric functions
L2	Evaluation of Functions	Recognize the graph of a trigonometric value
L3	Angle Location	Find the quadrant in which a given angle resides
		Reduce a large angle to its corresponding acute
L4	Reduction Formulas	angle
		Evaluate trigonometric functions using angle
		reduction formulas
L5	Quadrantal Angles	Define a quadrantal angle
		Convert a trigonometric expression to the
		corresponding expression with a positive acute angle
L6	Special Angles	Define special angles
		Use the properties of the special angles to evaluate
		trigonometric functions
L7	Radian Measure	Define the radian
		Convert angle measures in degrees to radians

4 PRECAI	LCULUS: CIRCULAR FUNCTIONS AND THE	IR GRAPHS
		Use the unit circle to find the positions of points and
L1	Circular Functions	angle measures
		Convert angle measures in degrees to angle
L2	Circular Functions of Special Angles	measures in radians
		Add, subtract, and multiply trigonometric expressions
L3	Graphs of Sin and Cos	Graph the sine and cosine functions
		Find the range and domain of the sine and cosine
		functions
		Graph the tangent, cotangent, secant, and cosecent
L4	Other Graphs	functions
		Find the range and domain of the tangent, cotangent,
		secant, and cosecent functions
		Find arc length and angular velocity when solving
L5	Applications	application problems
L6	Amplitude of Circular Functions	Define the amplitude of a circular function
		Find the amplitude of a circular function
L7	Period of Circular Functions	Define the period of a circular function
		Find the period of a circular function
L8	Phase Shift of Circular Functions	Define the phase shift of a circular function
		Find the phase shift of a circular function

5 PRECAI	LCULUS: IDENTITIES AND FUNCTIONS OF	MULTIPLE ANGLES
L1	Reciprocal Relations	Give the definition of an identity
		Use reciprocal relation identities to simplify
		expressions and solve equations
		Use Pythagorean relation identities to simplify
L2	Pythagorean Relations	expressions
L3	Quotient Relations	Use quotient relation identities to simplify expressions
		Use trigonometric relation identities to simplify
L4	Trigonometric Identities	expressions
		Use reciprocal relation identities to simplify
L5	Cosine of the Sum of Two Angles	expressions
	Additional Sum and Difference	Use sum and difference formulas to simplify
L6	Formulas	expressions
		Use double- and half-angle formulas to simplify
L7	Double- and Half-Angle Formulas	expressions
		Simplify expressions using any of the trigonometric
L8	Identities	identities studied so far
		Solve equations using any of the trigonometric
L9	Trigonometric Equations	identities studied so far

6 PRECALCULUS: APPLICATION OF TRIGONOMETRIC FUNCTIONS		
		Find the sine, cosine, and tangent associated with a
L1	Trigonometric Functions of Any	Angle given coordinate
	More Trigonometric Functions of	f Any
L2	Angle	Find the missing value in a right triangle problem
		Use right triangles in application problems
L3	Applied Problems	Use trigonometry to solve application problems
L4	Law of Cosines	Use the law of Cosines to solve for missing values
L5	Law of Sines	Use the law of Sines to solve for missing values
L6	More Applications	Solve more application problems
L7	Inclined Plane Application	Solve inclined plane applications with forces
L8	Navigation Application	Use trigonometry to solve navigation problems

7 PRECAI	CULUS: INVERSE TRIGONOMETRIC FUNC	CTIONS AND POLAR COORDINATES
L1	The Inverse Sine Function	Find the solutions of inverse sine functions
		Simplify inverse sine expressions
		Find solutions with restricted domain
L2	The Inverse Cosine Function	Find the solutions of inverse cosine functions
		Simplify inverse cosine expressions
		Find solutions with restricted domain
L3	The Inverse Tangent Function	Find the solutions of inverse tangent functions
		Simplify inverse tangent expressions
		Find solutions with restricted domain
		Find the solutions of other inverse trigonometric
L4	Other Inverse Functions	functions
		Simplify other inverse trigonometric expressions
		Find solutions with restricted domain
L5	Graphs of Inverse Functions	Graph inverse trigonometric functions
		Identify the domain and range
		Find the principal value of an inverse trigonometric
		expression
L6	Graphing Polar Coordinates	Graph points using polar coordinates
L7	Converting Coordinates	Convert polar coordinates to Cartesian coordinates
		Convert Cartesian coordinates to polar coordinates
	Converting Cartesian Equations to	
L8	Polar Equations	Convert Cartesian equations to polar equations
	Converting Polar Equations to	
L9	Cartesian Equations	Convert polar equations to Cartesian equations
L10	Graphing Polar Equations	Graph polar equations

L1 The Circle  Find the equation of a circle in standar Find the center and radius form the equiconcle  L2 The Circle Continued  Find the equation of a circle in general Find the domain and range  Find the equation of a circle when give on the circle  L3 Equation from Three Points  Find the equation of a circle when give on the circle  L4 Equation from Three Points Applied  L5 The Ellipse  Find the equation of a circle in applied  Find the properties of an ellipse  Write the standard equation of an ellipse  Write the properties of an ellipse  Find the properties of an ellipse  Find the properties of an ellipse	I form  I form  en three points  situations
Find the domain and range Find the equation of a circle when give on the circle  L4 Equation from Three Points Applied Find the equation of a circle in applied  L5 The Ellipse Find the properties of an ellipse Write the standard equation of an ellipse	en three points
L3 Equation from Three Points on the circle  L4 Equation from Three Points Applied Find the equation of a circle in applied  L5 The Ellipse Find the properties of an ellipse  Write the standard equation of an ellipse	situations
L4 Equation from Three Points Applied Find the equation of a circle in applied L5 The Ellipse Find the properties of an ellipse Write the standard equation of an ellipse	
L5 The Ellipse Find the properties of an ellipse Write the standard equation of an ellipse	
Write the standard equation of an ellips	
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I he Filinge. Standard Form Find the properties of an ellinge	<u>5e</u>
Write the standard equation of an ellips	Se
L7 The Ellipse: General Form Find the properties of an ellipse	
Write the general equation of an ellipse	e
I 9 The Ellinse Applied Find the equation of an ellinse in applie	ad cituations
L8 The Ellipse Applied Find the equation of an ellipse in applied L9 The Parabola Find the properties of a parabola	eu situations
Graph a parabola	
L10 The Parabola Continued Find the properties of a parabola	
Graph a parabola	
L11 The Parabola: Standard Form Find the properties of a parabola	
Graph a parabola	
Write a parabola in standard form	
L12 The Parabola Applied Use the parabola to solve application p	oroblems
L13 The Hyperbola Find the properties of a hyperbola	
L14 Translation Translate points in the Cartesian coord	
Find the center of a conic section and	translate the
L15 Translation of Equations origin to that center	
L16 Rotation Find the image of a point with respect to	
Find the image of an equation with res L17 Rotation of Equations rotation	pect to a
9 PRECALCULUS: PROBABILITY	
Definitions, Sample Spaces, and	
L1 Probability Find the probability of an event	
L2 Addition of Probabilities Compute the addition of a probability p	
Compute and interpret the multiplication	on of
L3 Multiplication of Probabilities probabilities	
L4 Definitions Calculate permutations Calculate combinations	
L5 Permutation of N Things: Different Calculate the permutation of n different	t things
Permutation of N Things: Not All	<u>,                                     </u>
L6 Different Calculate the permutation of n things in	n r classes
L7 Circular Permutations Calculate circular permutations	
L8 Combinations Calculate combinations	

10 PRECAL	CULUS: CALCULUS AND REVIEW	
L1	Summation	Write the terms of a summation
		Evaluate a summation
L2	Proofs by Mathematical Induction	Complete proofs using mathematical induction
L3	Functional Notation	Evaluate functions
L4	Difference Quotient	Given a function, find the difference quotient
L5	Limits	Evaluate the limit of a function at a point
L6	Slope of a Line	Use the limit definition to find the slope of a line
L7	Slope of a Curve	Use the limit definition to find the slope of a curve
L8	Review Mathematics 1201 and 1202	Review Unit 1 Review Unit 2
L9	Review Mathematics 1203 and 1204	Review Unit 3 Review Unit 4
L10	Review Mathematics 1205 and 1206	Review Unit 5 Review Unit 6
L11	Review Mathematics 1207 and 1208	Review Unit 7 Review Unit 8
L12	Review Mathematics 1209 and 1210	Review Unit 9 Review Unit 10