Mathematics Transitional Mathematics Unit 2: Computation

	 The basic computational operations used in mathematics can be
	used to solve verbal math problems.
	 Mathematics has specific rules for operations involving decimals
Essential	and fractions
Understandings	 For some problems in math, it is more efficient to change a
onderstandings	fractional answer to a decimal: or to change a decimal answer to a
	fractional answer to a decimal, or to change a decimal answer to a
	Fractional answers in math are usually reduced to lowest terms
	Fractional answers in math are usually reduced to lowest terms.
	• What are real numbers?
	• What is the rule for adding and subtracting decimal numbers?
	How do you multiply and divide decimal numbers?
	How do you add and subtract fractions?
	How do you find a common denominator?
Essential	How do you multiply and divide fractions?
Questions	What is the least common multiple?
	How do you find the LCM?
	What does it mean for a fraction to be in lowest terms?
	How do you reduce fractions to lowest terms?
	How do you convert fractions to decimals?
	How do you convert decimals to fractions?
	 Real numbers are the set of positive and negative numbers
	including all rational numbers, all irrational numbers and zero.
	 Decimals can be added, subtracted, multiplied and divided.
Essential	 Fractions can be reduced to lowest terms by division.
Knowledge	The least common multiple can be determined by prime
	factorization.
	 Fractions can be added, subtracted, multiplied and divided.
	 Fractions can be converted to decimals by division.
	 Decimals can be converted to fractions by utilizing powers of ten.
	Terms:
Vocabulary	 real numbers, fraction, numerator, denominator, least
-	common multiple, lowest terms, convert, decimal, prime
	factorization, negative numbers, positive numbers.
	 Identify real numbers.
	 Identify positive and negative numbers.
	 Add, subtract, multiply and divide real numbers.
Essential	 Reduce fractions to lowest terms.
Skills	 Convert fractions to decimals.
	 Convert decimals to fractions.
	 Determine the least common multiple.
	Identify and use the rules for adding, subtracting, multiplying and
	dividing decimals.
	 Identify and use the rules for adding, subtracting, multiplying and
	dividing fractions.

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	Mathematics
	A. Number
	Real Number
Related	A1.Students will know how to represent and use real numbers.
Maine Learning	a. Use the concept of nth root.
Results	 Estimate the value(s) of roots and use technology to
	approximate them.
	 Compute using laws of exponents.
	d. Multiply and divide numbers expressed in scientific notation.
	e. Understand that some quadratic equations do not have real
	solutions and that there exist other number systems to allow
	for solutions to these equations.
Sample	 Students will utilize the A+ learning lab (lesson and assessment).
Lessons	 Students will work in groups to solve word problems using their
And	knowledge of fractions and decimals.
Activities	
	 Students will complete homework assignments on the essential
Sample	skills from their textbook.
Classroom	 Students will demonstrate understanding through oral responses to
Assessment	group problem solving.
Methods	 Students will take teacher generated tests and quizzes.
	 Students will take tests in the A+ learning lab.
	Publications:
Sample	 Saxon-Algebra 1/2
Resources	