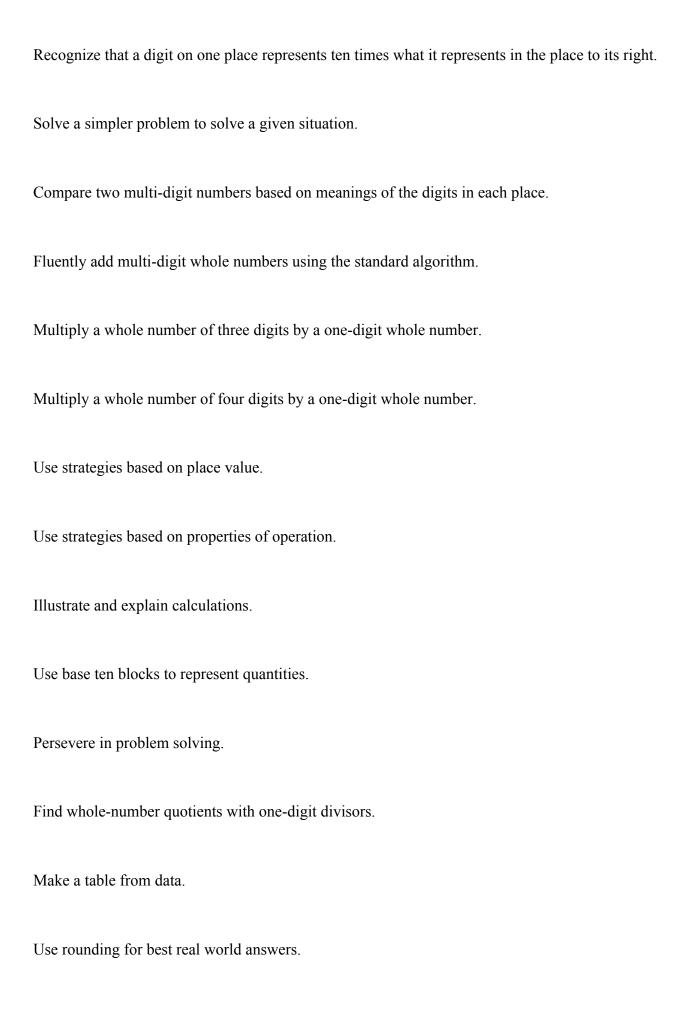
Unit 2: Multiplication and the Eraser Store

Content Area: Mathematics
Course(s): Mathematics 4
Time Period: October
Length: Oct 5 - Nov 6
Status: Published

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Enduring	Understandings
Computation	n involves taking apart and combining numbers using a variety of approaches.
Numbers car	n be classified by attributes.
Essential	Questions
	ons can be answered using multiplication?
How can rel	ationships be expressed symbolically?
Content	
Vocabulary	
Array	
Column	
Divisor	
Factor	
Division	
Vertical line	
Variable	
Horizontal l	ine
Left over	
Remainder	

Factor pairs		
Bar graph		
Chart		
Comma		
Inverse		
Estimate		
Multiple		
Round		
Symbol		
Unpacking		
http://www.mathplayground.com/common_core_state_standards_for_mathematics_grade_4.html		
Tenmarks.com k5learning.com http://www.insidemathematics.org/common-core-resources/mathematical-content-standards/standards-by-grade/4th-grade https://learnzillion.com/resources/17036-math-lesson-plans-4th-grade http://www.mathgoodies.com/standards/alignments/grade4.html Elem Math Assessment schedule.doc		
Skills Use a variety of strategies to solve problems.		
Use data from tables to answer questions.		
Discover how many packages can fit in crates in your virtual eraser store.		
Determine how orders should be packaged for optimal shipment.		



Standards

CCSS.Math.Content.4.NBT.A	Generalize place value understanding for multi-digit whole numbers.
CCSS.Math.Content.4.NBT.A.1	Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.
CCSS.Math.Content.4.NBT.A.2	Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.
CCSS.Math.Content.4.NBT.A.3	Use place value understanding to round multi-digit whole numbers to any place.
CCSS.Math.Content.4.NBT.B	Use place value understanding and properties of operations to perform multi-digit arithmetic.
CCSS.Math.Content.4.NBT.B.4	Fluently add and subtract multi-digit whole numbers using the standard algorithm.
CCSS.Math.Content.4.NBT.B.5	Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.
CCSS.Math.Content.4.NBT.B.6	Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.
CCSS.Math.Practice.MP1	Make sense of problems and persevere in solving them.
CCSS.Math.Practice.MP2	Reason abstractly and quantitatively.
CCSS.Math.Practice.MP3	Construct viable arguments and critique the reasoning of others.
CCSS.Math.Practice.MP4	Model with mathematics.
CCSS.Math.Practice.MP5	Use appropriate tools strategically.
CCSS.Math.Practice.MP7	Look for and make use of structure.
CCSS.Math.Practice.MP8	Look for and express regularity in repeated reasoning.