

Fourth Grade Mathematics Newsletter

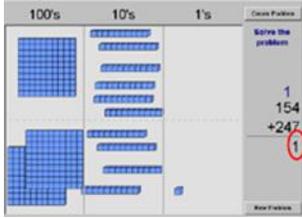
Marking Period 1, Part 2

MT	Learning Goals by Measurement Topic (MT) <u>Students will be able to . . .</u>
Number and Operations in Base Ten	<ul style="list-style-type: none"> • add and subtract whole numbers (up to one million) using the standard algorithm.
Operations and Algebraic Thinking	<ul style="list-style-type: none"> • solve multiple step word problems that include addition/subtraction and determine if the answers are reasonable. • recognize that situations can be multiplication and addition comparisons. • represent and solve addition comparison word problems. • represent and solve multiplication comparison word problems. • use variables to represent unknown numbers.

Thinking and Academic Success Skills (TASS)		
	<u>It is . . .</u>	<u>In mathematics, students will . . .</u>
Synthesis	putting parts together to build understanding of a whole concept or to form a new or unique whole.	<ul style="list-style-type: none"> • use knowledge of mathematical operations (+, -, x, ÷) to solve word problems. • connect previous knowledge of addition and subtraction facts to solve problems using numbers up to one million.
Collaboration	working effectively and respectfully to reach a group goal.	<ul style="list-style-type: none"> • participate in small group discussions of multiplication and addition comparisons. • determine reasonable answers in pairs and small groups. • discover when to compromise and when to stick to ideas while problem solving.

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Learning Experiences by Measurement Topic (MT)		
	 <u>In school, your child will . . .</u>	 <u>At home, your child can . . .</u>
Number and Operations in Base Ten	<ul style="list-style-type: none"> add and subtract with whole numbers up to one million using the standard algorithm. <p><u>Example:</u> $7,456 + n = 9,358$ $1,234 + 3,456 + 35,000 = \underline{\hspace{2cm}}$ $? = 10,000 - 6,597$</p> 	<ul style="list-style-type: none"> practice multiplication and division facts from 0 – 10. draw models to represent addition and subtraction problems using numbers up to one million. discuss the different strategies used to solve addition and subtraction problems. Explain the reason for choosing a specific strategy.
Operations and Algebraic Thinking	<ul style="list-style-type: none"> solve two-step word problems. (<u>Example:</u> In the public library there are 147,876 books. 36,429 books are mysteries; 17,981 are realistic fiction, and the remaining books are informational texts. How many books in the library are informational texts?) decide whether to multiply or add to solve a word problem. solve multiplication comparisons. (<u>Example:</u> Sam has 4 times as many marbles as Miguel. Miguel has 8 marbles. How many marbles does Sam have?) solve equations using a variable to represent an unknown number. (<u>Example:</u> $8 \times n = 32$) 	<ul style="list-style-type: none"> create and solve word problems involving familiar objects from home. Explain why the answer is correct and reasonable. engage in discussions about how and when to use multiplication to compare numbers (<u>Example:</u> Mei has twice as many pennies as quarters in her piggy bank.)
Glossary	<p>equation: a number sentence with an equal sign. <u>Example:</u> $4 + 8 = 12$ or $x + 9 = 18$</p> <p>variable: a letter used to represent an unknown amount.</p>	

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