

Fourth Grade Mathematics Newsletter

Marking Period 4, Part 2

MT	Learning Goals by Measurement Topic (MT) <u>Students will be able to . . .</u>	
Number and Operations - Fractions	<ul style="list-style-type: none"> • use decimals to express fractions with denominators of 10 and 100. • compare two decimals (to hundredths) by reasoning about their size. • recognize that decimal comparisons are valid only when the two decimals refer to the same whole. 	
Number and Operations in Base Ten	<ul style="list-style-type: none"> • multiply a two-digit number by a two-digit number. • illustrate and explain multiplication calculations by using equations, rectangular arrays, and/or area models. • divide a whole number (up to four digits) by a one-digit divisor resulting in answers with and without remainders. • illustrate and explain division calculations by using equations, rectangular arrays, and/or area models. • add and subtract multi-digit whole numbers using the standard algorithm. 	
Operations and Algebraic Thinking	<ul style="list-style-type: none"> • solve multi-step word problems that include addition, subtraction, multiplication, and division with remainders. • determine if answers to word problems are reasonable. • generate a number or shape pattern that follows a given rule. 	

Thinking and Academic Success Skills (TASS)		
MT	<u>It is . . .</u>	<u>In mathematics, students will . . .</u>
Flexibility	being open and responsive to new and diverse ideas and strategies and moving freely among them.	<ul style="list-style-type: none"> • write fractions and decimals in different ways and compare them. • use multiple strategies to solve multiplication and division problems.
Intellectual Risk Taking	accepting uncertainty or challenging the norm to reach a goal.	<ul style="list-style-type: none"> • generate a variety of ways to find solutions to word problems. • make adjustments to thinking when problem solving. • recognize that... <ul style="list-style-type: none"> ○ mistakes can help one learn. ○ skillful students ask for help and feedback. ○ it is okay to not understand everything the first time around. ○ everyone is capable of high achievement.

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Learning Experiences by Measurement Topic (MT)		
MT	In school, your child will . . .	At home, your child can . . .
Number and Operations - Fractions	<ul style="list-style-type: none"> represent fractions with denominators of 10 and 100 as decimals. <u>Example:</u> $15 \frac{5}{100} = 15.05$ or $1 \frac{8}{10} = 1.8$ compare two decimals using various strategies. <div style="text-align: center; margin-top: 10px;"> <p style="margin-top: 5px;"><u>Example:</u> $0.18 < 1.08$</p> </div>	<ul style="list-style-type: none"> practice comparing decimals found on product labels. <p style="margin-top: 10px;"><u>Example:</u> The potato salad in the package has twelve and fifteen hundredths (12.15) grams of fat. A milk carton contains seven and nine tenths (7.9) grams of fat. Which one has more fat grams?</p>
Number and Operations in Base Ten	<ul style="list-style-type: none"> multiply a two-digit number by another two-digit number using various strategies. <u>Example:</u> How would you solve the problem 32×46 using more than one strategy? divide a four-digit number by a one-digit number. <u>Example:</u> $753 \div \underline{\quad} = 94 \text{ R}1$ add and subtract multi-digit whole number using the standard algorithm. <div style="text-align: center; margin-top: 10px;"> <p><u>Example:</u></p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> $\begin{array}{r} \underline{\quad} + 759,063 = 800,204 \\ 7 \overset{2}{\text{H}10} \quad 1 \overset{10}{\text{H}0} \\ 800,204 \\ - 759,063 \\ \hline 41,141 \end{array}$ </div> </div>	<ul style="list-style-type: none"> practice multiplication and division facts from 0 – 10. use real-world situations that would require multiplication or division (with and without remainders), and show the strategy used. <p style="margin-top: 10px;"><u>Example:</u> On field day there were 328 students who need to be grouped into 9 teams. How many students will be on each team? Will all the teams be equal? Discuss why or why not.</p>
Operations and Algebraic Thinking	<ul style="list-style-type: none"> solve multi-step word problems using all four operations. <u>Example:</u> Ice skating at the Rockville Town Square ice rink costs \$8 for adults and \$7 for children. The cost to rent ice skates is \$3. How much does it cost for a group of 2 adults and 15 children to ice skate if both adults and 9 of the children need to rent ice skates? generate a number pattern that follows a given rule. 	<ul style="list-style-type: none"> create patterns using numbers or shapes and have others guess the rule and the missing numbers. <p style="margin-top: 10px;"><u>Example:</u> 72, 66, 60, <u> </u>, <u> </u>, <u> </u> “I started with 72 and subtracted 6.”</p>