Fourth Grade Compacted Mathematics Newsletter
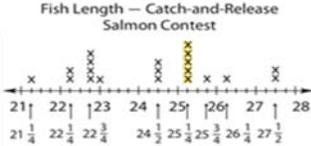
Marking Period 2, Part 1

MT	Learning Goals by Measurement Topic (MT) Students will be able to . . .
Operations and Algebraic Thinking	• identify factor pairs of a whole number within 100. • recognize that a whole number is a multiple of each of its factors. • identify whole numbers, within 100, as prime (a number that has only two factors) or composite (a number with more than two factors).
Number and Operations-Fractions	• identify equivalent fractions. • compare fractions with different numerators and denominators. • compose (put together) and decompose (separate) to add and subtract fractions. • add and subtract mixed numbers with like denominators. • solve word problems involving addition and subtraction of fractions.
Measurement and Data	• create line plots to display measurement data and interpret the data.

Thinking and Academic Success Skills (TASS)		
	It is . . .	In mathematics, students will . . .
Elaboration	adding details that expand, enrich, or embellish.	• compare the value of two fractions and explain reasoning. • justify the strategy used to compare fractions.
Effort/Motivation/ Persistence	working diligently and applying effective strategies to achieve a goal or solve a problem; continuing in the face of obstacles and competing pressures.	• ask questions to clarify learning tasks and self-assess progress. • share and exchange strategies used to solve word problems. • select manipulatives and aids to solve fraction problems when having difficulties.

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Learning Experiences by Measurement Topic (MT)				
MT	🚌	<u>In school, your child will . . .</u>	🏠	<u>At home, your child can . . .</u>

Operations and Algebraic Thinking		• use rectangular arrays to find pairs of factors of a number and determine whether a number is prime or composite.
		
		<u>Example:</u> 3 is prime because the only arrays that can be made are…
		
		1x3 * * * 3x1 *
		                         *
		                         *
				• practice finding factors of a number. Use a set of 24 objects. Show all the ways 24 can be divided to make equal groups.
				• explore multiples of 6 using a six-pack of water. Ask how many water bottles are in 1 pack, 2 packs, 3 packs, etc. (6, 12, 18…)? Expand on this with other products at the grocery store.

Numbers and Operations - Fractions		• identify equivalent fractions, compare fractions, and compose and decompose fractions using various strategies such as number lines, pattern blocks, and models. Where would you place $\frac{13}{8}$ on the number line? <u>Example:</u>		• ask questions about comparing fractions. • discuss equivalent fractions in a pizza, sheet cake, or pie with a family member of friend. • practice doubling or tripling the amount of ingredients needed for favorite recipes that have fractional measures. <u>Example:</u> Given a pizza with a total of 8 slices of equal size, discuss that one-half of the pizza is the same as four of the eight slices. One-fourth of the pizza is the same as two of the eight slices.
Measurement and Data		• organize data that includes fractions using a line plot and answer questions about the data. <u>Example:</u> Fish Lengths, in inches Fish Length — Catch-and-Release Salmon Contest • solve real world problems involving measurement and fractions using all four operations.		• measure ten objects (shoes, cups, tables, books, etc.) to the nearest $\frac{1}{2}, \frac{1}{4}$, or $\frac{1}{8}$ inch. Arrange the objects in order from shortest to longest and record the measurements on a line plot.