

Fourth Grade Compacted Mathematics Newsletter



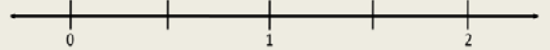
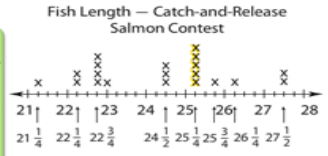
Marking Period 2, Part 1

MT	Learning Goals by Measurement Topic (MT) <u>Students will be able to . . .</u>
Operations and Algebraic Thinking	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> create line plots to display measurement data and interpret the data.

Thinking and Academic Success Skills (TASS)		
	<u>It is . . .</u>	<u>In mathematics, students will . . .</u>
Elaboration	adding details that expand, enrich, or embellish.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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... <div style="border: 1px solid black; padding: 5px; display: inline-block;"> 1×3 * * * 3×1 * * * </div> 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> identify equivalent fractions, compare fractions, and compose and decompose fractions using various strategies such as number lines, pattern blocks, and models. <div style="text-align: center; margin: 10px 0;"> Where would you place $\frac{13}{8}$ on the number line? </div> <div style="text-align: center;">  </div> <u>Example:</u> 	<ul style="list-style-type: none"> ask questions about comparing fractions. discuss equivalent fractions in a pizza, sheet cake, or pie with a family member or 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	<ul style="list-style-type: none"> organize data that includes fractions using a line plot and answer questions about the data. <u>Example:</u> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="border: 1px solid green; padding: 5px; margin-right: 10px;"> Fish Lengths, in inches $24\frac{1}{2}, 25\frac{3}{4}, 26\frac{1}{4}, 25\frac{1}{4}, 23, 22\frac{3}{4}, 22\frac{3}{4}, 21\frac{1}{4}, 25\frac{1}{4}, 25\frac{1}{4}, 24\frac{1}{2}, 22\frac{3}{4}, 22\frac{1}{4}, 27\frac{1}{2}, 25\frac{1}{4}, 24\frac{1}{2}, 22\frac{1}{4}, 22\frac{3}{4}, 25\frac{1}{4}, 27\frac{1}{2}$ </div>  </div> solve real world problems involving measurement and fractions using all four operations. 	<ul style="list-style-type: none"> 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.