



Hattiesburg Public School District

Grade 5 Mathematics Units

2015 – 2016



Unit 5: Add/Subtract Fractions	Time Frame: 3 Weeks (October 29-November 4)
Content Standards	Standards for Mathematical Practice
Major Standards	
<p>5.NF.3 Interpret a fraction as division of the numerator by the denominator ($a/b = a \div b$). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, e.g., by using visual fraction models or equations to represent the problem.</p> <p>5.NF.1 Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.</p> <p>5.NF.2 Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.</p>	<ol style="list-style-type: none"> (1) Make sense of problems and persevere in solving them. (2) Reason abstractly and quantitatively. (3) Construct viable arguments and critique the reasoning of others. (4) Model with mathematics. (5) Use appropriate tools strategically. (6) Attend to precision. (7) Look for and make use of structure. (8) Look for and express regularity in repeated reasoning.
Supporting Standards	
Additional Standards	
<p>5.OA.1 Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.</p>	



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5.OA.2 Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them.

5.MD.2 Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). Use operations on fractions for this grade to solve problems involving information presented in line plots.

Pre-requisite Standards

4.NF.1 Explain why a fraction $\frac{a}{b}$ is equivalent to a fraction $\frac{n \times a}{n \times b}$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions.

4.NF.2 Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as $\frac{1}{2}$. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual fraction model.

4.NF.3b Understand a fraction $\frac{a}{b}$ with $a > 1$ as a sum of fractions $\frac{1}{b}$. Decompose a fraction into a sum of fractions with the same denominator in more than one way recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model.



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Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Lesson Topic: Interpreting Fractions Standard Ref: 5.NF.3 Resource/Strategy	Lesson Topic: Understanding Fractions as Division Standard Ref: 5.NF.3 Resource/Strategy	Lesson Topic: Finding Equivalent Fractions (simplifying, mixed and improper fractions) Standard Ref: 5.NF.1 Resource/Strategy	Lesson Topic: Adding Fractions with Unlike Denominators Standard Ref: 5.NF.1 Resource/Strategy	Lesson Topic: Subtracting Fractions with Unlike Denominators Standard Ref: 5.NF.1 Resource/Strategy
Lesson 6	Lesson 7	Lesson 8	Lesson 9	Lesson 10
Lesson Topic: Use benchmark fractions to Compare Fractions Standard Ref: 5.NF. 2 Resource/Strategy	Lesson Topic: Estimate Using Benchmark Fractions Standard Ref: 5.NF.2 Resource/Strategy	Lesson Topic: Problem Solving with Addition and Subtraction of Fractions with Unlike Denominators Standard Ref: 5.NF.2 Resource/Strategy	Lesson Topic: Order of operations with adding/subtracting of fractions Standard Ref: 5.OA.1 Resource/Strategy	Lesson Topic: Evaluating Expressions with adding/subtracting of fractions Standard Ref: 5.OA.2 Resource/Strategy
Lesson 11	Lesson 12	Lesson 13	Performance Task	
Lesson Topic: Reading Line Plots Standard Ref: 5.MD.2 Resource/Strategy	Lesson Topic: Solve Problems Using Data in a Line PLOT Standard Ref: 5.MD.2 Resource/Strategy	Lesson Topic: Make Line Plots and Interpret Data Standard Ref: 5.MD.2 Resource/Strategy		