



Hattiesburg Public School District

Grade 5 Mathematics Units

2015 – 2016



Unit 7: Division of Fractions	Time Frame: 3 Weeks (Dec 14-Jan 15)
Content Standards	Standards for Mathematical Practice
Major Standards	
<p>5.NF.7a Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions. Interpret division of a unit fraction by a nonzero whole number, and compute such quotients. For example, create a story context for $(1/3) \div 4$, and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that $(1/3) \div 4 = 1/12$ because $(1/12) \times 4 = 1/3$.</p> <p>5.NF.7b Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions. Interpret division of a whole number by a unit fraction, and compute such quotients. For example, create a story context for $4 \div (1/5)$, and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that $4 \div (1/5) = 20$ because $20 \times (1/5) = 4$.</p> <p>5.NF.7c Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions. Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem. For example, how much chocolate will each person get if 3</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.



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people share $\frac{1}{2}$ lb of chocolate equally? How many $\frac{1}{3}$ - cup servings are in 2 cups of raisins?

Supporting Standards

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.

Additional Standards

Pre-requisite Standards

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Lesson Topic: Understand Division with Unit Fractions Standard Ref: 5.NF.6 Resource/Strategy	Lesson Topic: Dividing with Unit Fractions Standard Ref: 5.NF.6 Resource/Strategy	Lesson Topic: Dividing a Fraction by a Whole Number Standard Ref: 5.NF.6 Resource/Strategy	Lesson Topic: Dividing a Whole Number by a Fraction Standard Ref: 5.NF.6 Resource/Strategy	Lesson Topic: Divide Unit Fractions in Word Problems Standard Ref: 5.NF.6 Resource/Strategy
Lesson 6	Performance Task			
Lesson Topic: Solve Problems with Division of Fractions using Line Plots Standard Ref: 5.MD.2 Resource/Strategy				



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