

Content Standard		<p>MAFS.5.NF Numbers and Operations – Fractions</p> <p>MAFS.5.NF.2 Apply and extend previous understandings of multiplication and division to multiply and divide fractions.</p> <p>MAFS.5.NF.2.3 Interpret a fraction as division of the numerator by the denominator ($\frac{a}{b} = a \div b$). 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. <i>For example, interpret $\frac{3}{4}$ as the result of dividing 3 by 4, noting that $\frac{3}{4}$ multiplied by 4 equals 3, and that when 3 wholes are shared equally among 4 people each person has a share of size $\frac{3}{4}$. If 9 people want to share a 50-pound sack of rice equally by weight, how many pounds of rice should each person get? Between what two whole numbers does your answer lie?</i></p>	
Assessment Limits		<p>Quotients in division problems should not be equivalent to a whole number. Do not use the term “simplify” or “lowest terms.” Only use whole numbers for the divisor and dividend of a fraction.</p>	
Calculator		No	
Acceptable Response Mechanisms		<p>Equation Response Multiple Choice Response Natural Language Response Table Response</p>	
Context	Allowable		
Example			
Context	Use of double-digit divisors or dividends that share common factors.		
Context easier	Simple fractions with single-digit divisor and dividend.		
Context more difficult	Division with a double- or single-digit dividend and/or divisor as well as improper fraction/quotients.		
Sample Item Stem		Response Mechanism	Notes, Comments
<p>An expression is shown.</p> <p>$9 \div 3$</p> <p>What is the quotient expressed as a fraction?</p>		Equation Response	

<p>A fraction is shown.</p> $\frac{8}{15}$ <p>Which expression is equivalent to this fraction?</p> <p>A. $8 - 15$ B. $15 - 8$ C. $8 \div 15$ D. $15 \div 8$</p>	<p>Multiple Choice Response</p>	
<p>Joe has an 8-foot-long board. He needs to cut it into 9 equal length parts.</p> <p>How many feet long should each section of the board be?</p>	<p>Equation Response</p>	
<p>Joe has a 6-foot-long board. He needs to cut it into 15 equal length parts.</p> <p>How many feet long should each section of the board be?</p>	<p>Equation Response</p>	
<p>Joe has a 28-foot-long board. He needs to cut it into 24 equal length parts.</p> <p>How many feet long should each section of the board be?</p>	<p>Equation Response</p>	
<p>An expression is shown.</p> $78 \div 14$ <p>Between which two consecutive whole numbers does this value lie? Enter your numbers in the boxes.</p> <p>Between <input type="text"/> and <input type="text"/></p>	<p>Table Response</p>	