

Content Standard	<p>MAFS.5.NF Number and Operations - Fractions</p> <p>MAFS.5.NF.1 Use equivalent fractions as a strategy to add and subtract fractions.</p> <p>MAFS.5.NF.1.2 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. <i>For example, recognize an incorrect result $\frac{2}{5} + \frac{1}{2} = \frac{3}{7}$, by observing that $\frac{3}{7} < \frac{1}{2}$.</i></p>	
Assessment Limits	<p>Improper fractions and mixed numbers included. Least common denominator is not necessary to calculate sums of fractions. Do not use the term “simplify” or “lowest terms.”</p>	
Calculator	No	
Acceptable Response Mechanisms	<p>Equation Response Multiple Choice Response Natural Language Response</p>	
Context	Required	
Example		
Context	Addition or subtraction of two fractions with unlike denominators.	
Context easier	Addition or subtraction of two fractions with like denominators.	
Context more difficult	<p>Addition or subtraction of a fraction and a mixed number, or two mixed numbers. Add/subtract three fractions/mixed numbers (use sparingly, and all items that use this parameter should be labeled “hard”). Add or subtract two mixed numbers where regrouping into the whole number is necessary.</p>	
Sample Item Stem	Response Mechanism	Notes, Comments
<p>John brought $\frac{1}{4}$ cup of chocolate chips to Sue’s house so they can bake cookies. Sue already has $\frac{3}{8}$ cup of chocolate chips.</p> <p>How many cups of chocolate chips do they have altogether?</p>	Equation Response	
<p>John and Sue are baking cookies. The recipe lists $\frac{3}{4}$ cup of flour. They only have $\frac{3}{8}$ cup of flour left.</p> <p>How many more cups of flour do they need to bake the cookies?</p>	Equation Response	

Grade 5 Mathematics Item Specifications
Florida Standards Assessments

<p>Javon, Sam, and Antoine are baking cookies. Javon has $\frac{1}{2}$ cup of flour, Sam has $1\frac{1}{6}$ cups of flour, and Antoine has $1\frac{3}{4}$ cups of flour.</p> <p>How many cups of flour do they have altogether?</p>	<p>Equation Response</p>	
<p>Richard and Gianni each bought a pizza. The pizzas are the same size.</p> <ul style="list-style-type: none"> • Richard cut his pizza into 12 slices. • Gianni cut his pizza into 6 slices, and ate 2 slices. • Together, Richard and Gianni ate $\frac{9}{12}$ of one pizza. <p>How many slices of his pizza did Richard eat?</p>	<p>Equation Response</p>	
<p>Jasmine has $\frac{1}{2}$ cup of flour in a mixing bowl. She adds more flour.</p> <p>Jasmine claims that she now has $\frac{3}{7}$ cup of flour in the mixing bowl.</p> <p>Which statement explains why Jasmine’s claim is incorrect?</p> <ul style="list-style-type: none"> A. 7 is not a multiple of 2 B. 1 is less than 3 C. $\frac{3}{7}$ is less than $\frac{1}{2}$ D. $\frac{3}{7}$ is not a multiple of $\frac{1}{2}$ 	<p>Multiple Choice Response</p>	