

Content Standard		<p><b>MAFS.5.NF Numbers and Operations – Fractions</b></p> <p><b>MAFS.5.NF.1 Use equivalent fractions as a strategy to add and subtract fractions.</b></p> <p><b>MAFS.5.NF.1.1</b> 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. For example, <math>\frac{2}{3} + \frac{5}{4} = \frac{8}{12} + \frac{15}{12} = \frac{23}{12}</math>. (In general, <math>\frac{a}{b} + \frac{c}{d} = \frac{(ad+bc)}{bd}</math>.)</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 terms “simplify” or “lowest terms.” Denominators should be one-digit or two-digit.</p>	
Calculator		No	
Acceptable Response Mechanisms		<p>Equation Response Graphic Response – Hot Spot Multiple Choice Response Multi-Select Response</p>	
Context	No context		
Example			
Context	<p>Addition or subtraction of two fractions, where the denominator of one is not a multiple of the other. Addition or subtraction of a fraction and a mixed number, or two mixed numbers, where the denominator of one fraction is a multiple of the other.</p>		
Context easier	Addition or subtraction of two fractions, where the denominator of one is a multiple of the other.		
Context more difficult	<p>Addition or subtraction of a fraction and a mixed number, or two mixed numbers, where the denominator of one fraction is not a multiple of the other. 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>An expression is shown.</p> $\frac{5}{6} + \frac{8}{12}$ <p>What is the value of the expression?</p>		Equation Response	
<p>An expression is shown.</p> $2\frac{2}{5} + \frac{6}{10}$ <p>What is the value of the expression?</p>		Equation Response	

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An expression is shown. $6\frac{1}{3} - 4\frac{3}{4}$ What is the value of the expression?	Equation Response	
An equation is shown. $\frac{3}{4} + \frac{?}{2} = \frac{13}{4}$ What is the missing number?	Equation Response	
An equation is shown. $\frac{11}{14} - \frac{?}{4} = \frac{4}{14}$ What is the missing number?	Equation Response	
An equation is shown. $2\frac{3}{12} + \frac{3}{?} = 2\frac{5}{8}$ What is the missing number?	Equation Response	