

Number and Operations - Fractions

Grade: 5	Subject: Math
<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 $2/5 + 1/2 = 3/7$, by observing that $3/7 < 1/2$.</i></p> <p><i>Cognitive Complexity: Level 2: Basic Application of Skills & Concepts</i></p>	
<p>Concepts-Students should know</p> <p style="text-align: center;"><u>Nouns</u></p> <ul style="list-style-type: none"> • Word problems • Addition • Subtraction • Fractions • Unlike denominators • Visual fraction models • Equations • Benchmark fractions • Number sense 	<p>Skills-Students should be able to do</p> <p style="text-align: center;"><u>Verbs</u></p> <ul style="list-style-type: none"> • Solve (word problems) • Using (fraction models or equations) • Represent (the problem) • Use (Benchmark fractions and number sense of fractions) • Estimate (reasonableness of answers) • Assess (reasonableness of answers)
<p>Big Ideas:</p> <ul style="list-style-type: none"> • Benchmark fractions and number sense are used to check your answers. (For example, recognize an incorrect result $2/5 + 1/2 = 3/7$, by observing that $3/7 < 1/2$). • Drawing fraction models can help you solve problems. 	
<p>Essential Questions:</p> <ul style="list-style-type: none"> • In real life, when would I need to add and subtract fractions? • How can I use mental estimation to check my answers? • What is an efficient strategy for adding and subtracting fractions? 	
<p>Learning Goal:</p> <p>I can:</p> <ul style="list-style-type: none"> • Solve word problems involving addition and subtraction of fractions with unlike denominators. • Refer to the same whole including cases of unlike denominators. 	

Scale:

4	I can create and solve word problems involving addition and subtraction of fractions with like and unlike denominators and use mental math to check reasonableness of my answer.
3	I can: <ul style="list-style-type: none">• Solve word problems involving addition and subtraction of fractions with unlike denominators.• Refer to the same whole including cases of unlike denominators.
2	I can define vocabulary such as: <ul style="list-style-type: none">• Word problems, addition, subtraction, fractions, unlike denominators, visual fraction models, equations, benchmark fractions, number sense I can: <ul style="list-style-type: none">• Generate equivalent fractions to find like denominators.• Evaluate the reasonableness of an answer, using fractional number sense, by comparing it to a benchmark fraction.• Round fractions to estimate and check for reasonableness.• Describe how to use benchmark fractions.• Draw and use fraction models.
1	With help, I can have partial success with 2.0 content.