

Chapter 2 – Add & Subtract Fractions

Study Guide & Self-Reflection

Math Skill	Level of Understanding
<p>I can write fractions as division expressions.</p> <p>Examples</p> $\frac{1}{4} = 1 \div 4$	<p>1 2 3 4 5</p>
<p>I can convert improper fractions to mixed numbers.</p> <p>Examples</p> $\frac{52}{10} = 5 \frac{2}{10} \text{ or } 5 \frac{1}{5}$ <p><i>Hint: Divide numerator by denominator to get your whole number. Place remainder as the numerator and keep denominator the same.</i></p>	<p>1 2 3 4 5</p>
<p>I can convert mixed numbers to improper fractions.</p> <p>Examples</p> $4 \frac{3}{5} = \frac{23}{5}$ <p><i>Hint: Multiply whole number by denominator and then add the numerator. This will give you the numerator of the improper fraction. Keep the denominator the same.</i></p>	<p>1 2 3 4 5</p>

Math Skill	Level of Understanding
<p>I can simplify fractions and write fractions in simplest form.</p> <p>Examples</p> $\frac{34}{52} = \frac{18}{26} = \frac{9}{13} \text{ (divided numerator/denominator by 2 each time)}$ $\frac{14}{21} = \frac{2}{3} \text{ (divided numerator/denominator by 7)}$ $\frac{5}{50} = \frac{1}{10} \text{ (divided numerator/denominator by 5)}$	<p>1 2 3 4 5</p>
<p>I can add fractions by converting fractions to have common denominators.</p> <p>Examples</p> $\frac{3}{4} + \frac{5}{6} =$ $\frac{9}{12} + \frac{10}{12} = \frac{19}{12} \text{ or } 1 \frac{7}{12} \text{ (identified common denominator of 12)}$ <p><i>Hint: Find common denominator (common multiple) and multiply numerator/denominator by same number to create fractions with common denominator. You can also use the shortcut of multiplying both denominators to find a common denominator. Then add numerators and keep denominator the same.</i></p>	<p>1 2 3 4 5</p>
<p>I can add mixed numbers by converting fractions to have common denominators.</p> <p>Examples</p> $3 \frac{1}{5} + 2 \frac{3}{10} =$ $3 \frac{10}{50} + 2 \frac{15}{50} = 5 \frac{25}{50} \text{ or } 5 \frac{1}{2} \text{ (identified common denominator of 50)}$ <p><i>Hint: To add mixed numbers, we use the same strategy for adding fractions. We just need to add the whole numbers and fractions of each mixed number separately.</i></p>	<p>1 2 3 4 5</p>

Math Skill	Level of Understanding
<p>I can subtract fractions by converting fractions to have common denominators.</p> <p>Examples</p> $\frac{5}{7} - \frac{2}{5} =$ $\frac{25}{35} - \frac{14}{35} = \frac{11}{35} \text{ (identified common denominator of 35)}$ <p><i>Hint: We use the same strategy for adding fractions (must change fractions to have a common denominator) except we SUBTRACT the numerators and keep the denominator the same.</i></p>	<p>1 2 3 4 5</p>
<p>I can subtract mixed numbers by converting fractions to have common denominators.</p> <p>Example 1 (No Regrouping Needed)</p> $5\frac{2}{3} - 2\frac{1}{5} =$ $5\frac{10}{15} - 2\frac{3}{15} = 3\frac{7}{15} \text{ (identified common denominator of 15)}$ <p>Example 2 (Need to Regroup)</p> $5\frac{1}{4} - 2\frac{5}{6} =$ $5\frac{6}{24} - 2\frac{20}{24} = \text{(identified common denominator of 24)}$ <p>* I can't subtract $\frac{6}{24}$ and $\frac{20}{24}$, so I need to regroup and take one whole from the 5 and add it to $\frac{6}{24}$. In this case one whole equals $\frac{24}{24}$. So, $\frac{24}{24} + \frac{6}{24}$ gives me $\frac{30}{24}$. Now I can complete the subtraction.</p> $4\frac{30}{24} - 2\frac{20}{24} = \text{(I regrouped by taking one whole from 5 and added it to } \frac{6}{24} \text{ to get } \frac{30}{24} \text{)}$ $4\frac{30}{24} - 2\frac{20}{24} = 2\frac{10}{24} \text{ or } 2\frac{5}{12}$	<p>1 2 3 4 5</p>

Math Skill	Level of Understanding
<p>I can solve single-step and multi-step fraction word problems by choosing the correct operation.</p> <p>Examples <i>See problems in section 4 of math workbook and homework book.</i></p>	<p>1 2 3 4 5</p>
<p>I can solve single-step and multi-step fraction word problems by using the bar model strategy.</p> <p>Examples <i>See problems in section 4 of math workbook and homework book.</i></p>	<p>1 2 3 4 5</p>