

HELPFUL TIPS FOR OPERATION OF FRACTIONS

<p><u>Adding Fractions with common/like denominators</u></p> <ol style="list-style-type: none"> 1. First, check if the denominator of both fractions being added are the same. 2. If they are the same, the denominator of your answer will be the denominator of your fractions being added. 3. Add across – add the numerators of the fractions being added. 4. Simplify your answer if necessary. <p>E.g. https://www.khanacademy.org/math/in-sixth-grade-math/fractions-1/addition-subtraction-fractions/v/adding-fractions-with-like-denominators?gclid=CPGQ6p-R8c0CFYlehgod2ngEfw</p>	<p><u>Subtracting Fractions with common/like denominators</u></p> <ol style="list-style-type: none"> 1. First, check if the denominator of both fractions are the same. 2. If they are the same, the denominator of your answer will be the denominator of your fractions. 3. Subtract the numerator of the second fraction from the numerator of the first fraction. 4. Simplify your answer if necessary. <p>E.g. https://www.khanacademy.org/math/in-sixth-grade-math/fractions-1/addition-subtraction-fractions/v/subtracting-fractions</p>
<p><u>Adding Fractions with different denominators</u></p> <ol style="list-style-type: none"> 1. First, check if the denominator of both fractions being added are different. 2. If they are different, find the least common multiple (LCM) of both denominators. The LCM will be the denominator of the answer. 3. Convert the fractions being added. Find the factor of the LCM that would change each fraction's denominator to the LCM. Multiply the numerator and denominator of each fraction by its respective factor. 4. Now you may add the fractions and simplify if necessary. <p>E.g. https://www.khanacademy.org/math/in-sixth-grade-math/fractions-1/addition-subtraction-fractions/v/adding-fractions-with-unlike-denominators</p>	<p><u>Subtracting Fractions with different denominators</u></p> <ol style="list-style-type: none"> 1. First, check if the denominator of both fractions being subtracted are different. 2. If they are different, find the least common multiple (LCM) of both denominators. The LCM will be the denominator of the answer. 3. Convert the fractions being subtracted. Find the factor of the LCM that would change each fraction's denominator to the LCM. Multiply the numerator and denominator of each fraction by its respective factor. 4. Now you may subtract the fractions and simplify if necessary. <p>E.g. https://www.khanacademy.org/math/in-sixth-grade-math/fractions-1/addition-subtraction-fractions/v/subtracting-fractions-with-unlike-denominators</p>
<p><u>Multiplying Fractions</u></p> <ol style="list-style-type: none"> 1. If any of the fractions are mixed fractions, convert the fractions to improper fractions. 2. Multiply across – multiply the numerator of the first fraction by the numerator of the second fraction for the numerator of your answer. Then, multiply the denominator of your first and second fraction to find the denominator of your answer. 3. Simplify your answer if necessary. <p>Note: You may simplify your fractions before individually before multiplying.</p> <p>E.g. https://www.khanacademy.org/math/pre-algebra/fractions-pre-alg/multiplying-fractions-pre-alg/v/multiplying-fractions</p>	<p><u>Dividing Fractions : KEEP, CHANGE, FLIP</u></p> <ol style="list-style-type: none"> 1. KEEP – Keep the first fraction as a proper/improper fraction. 2. CHANGE – Change the division sign to a multiplication sign. 3. FLIP – ‘Flip’ the second fraction by changing it to its reciprocal. 4. Now multiply the numerator of the first fraction by the numerator of the second fraction, then multiply the denominator of the first and second fraction. 5. Simplify your answer if necessary. <p>E.g. https://www.khanacademy.org/math/arithmetic/fractions/dividing-fractions-fractions/v/dividing-fractions-example</p>