

ADDING AND SUBTRACTING FRACTIONS

Determine the least common denominator for each set of fractions. Do not solve.

<p>1.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center; width: 40px;"> $\frac{2}{3}$ </div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center; width: 40px;"> $\frac{3}{4}$ </div> </div>	<p>2.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center; width: 40px;"> $\frac{4}{7}$ </div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center; width: 40px;"> $\frac{1}{6}$ </div> </div>	<p>3.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center; width: 40px;"> $\frac{5}{6}$ </div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center; width: 40px;"> $\frac{1}{12}$ </div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; text-align: center; width: 40px;"> $\frac{3}{8}$ </div> </div>
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ADDING & SUBTRACTING FRACTIONS

Fractions and mixed numbers can be added and subtracted by following these steps:

1. Find the _____ of the fractions.
2. _____ each fraction.
3. Add or subtract the _____. Leave the denominator the same.
4. Regroup and simplify.

Practice adding and subtracting the fractions below. Then simplify any answers greater than one.

<p>4.</p> $\frac{3}{5} + \frac{1}{3} = \underline{\hspace{2cm}}$	<p>5.</p> $\frac{3}{8} - \frac{1}{4} = \underline{\hspace{2cm}}$	<p>6.</p> $\frac{1}{2} + \frac{5}{6} = \underline{\hspace{2cm}}$
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Apply the process of adding and subtracting fractions to mixed numbers. Use the checklist to help.

<p>7.</p> $2\frac{2}{5} - 1\frac{1}{3} = \underline{\hspace{2cm}}$	<p>8.</p> $4\frac{1}{2} + 1\frac{1}{3} = \underline{\hspace{2cm}}$
<ul style="list-style-type: none"> <input type="checkbox"/> LCD <input type="checkbox"/> Rename the fractions <input type="checkbox"/> Add/Sub fractions <input type="checkbox"/> Add/Sub whole numbers <input type="checkbox"/> Regroup and simplify 	<ul style="list-style-type: none"> <input type="checkbox"/> LCD <input type="checkbox"/> Rename the fractions <input type="checkbox"/> Add/Sub fractions <input type="checkbox"/> Add/Sub whole numbers <input type="checkbox"/> Regroup and simplify

REGROUPING MIXED NUMBERS

When subtracting mixed numbers, you may need to regroup the whole number into its _____.

$$1 \text{ whole} = \underline{\hspace{2cm}} \text{ eighths} \quad 1 \text{ whole} = \underline{\hspace{2cm}} \text{ fifths}$$

$$2 \text{ whole} = \underline{\hspace{2cm}} \text{ whole and } \underline{\hspace{2cm}} \text{ thirds}$$

Practice regrouping the whole number below and subtracting.

9. $1 - \frac{2}{7} =$

10. $2 - \frac{3}{10} =$

11. $5 - \frac{3}{20} =$

Apply your understanding of regrouping to solve the problems below.

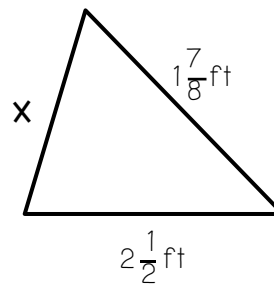
12. $2\frac{1}{4} - \frac{3}{4} =$

13. $7\frac{1}{8} - 2\frac{3}{4} =$

14. $5\frac{1}{6} - 1\frac{2}{3} =$

15. On Wednesday, Lea rode the city bus for $3\frac{1}{2}$ miles. On Thursday, she rode the bus for $4\frac{1}{4}$ miles. How much farther did Lea ride the bus on Thursday than Wednesday?

16. The perimeter of the triangle below is 6 feet. What is the missing side length, x?



Summarize today's lesson: