

# Adding/Subtracting Fractions

## Using Reducing Method to Find CD

1. Find a CD
2. Make = fractions
3. Add/subtract numerators
4. Bring down denominator
5. Simplify

*Example*  $5/18 + 7/24$   
find CD;  $\frac{24}{18} = \frac{4}{3}$ ,  $\therefore$  CD is  $3 \times 24 = 72$

$$\begin{array}{r} \frac{5}{18} = \frac{20}{72} \\ + \frac{7}{24} = \frac{21}{72} \\ \hline \frac{41}{72} \end{array}$$

**Recall - to find the LCD when denominators are larger composite numbers, place the denominators over each other, simplify, then cross multiply.**

$$\begin{array}{r} 1. \quad \frac{2}{5} \\ - \frac{3}{16} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad \frac{3}{16} \\ - \frac{1}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad \frac{1}{3} \\ + \frac{17}{45} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad \frac{1}{12} \\ + \frac{1}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad \frac{1}{8} \\ + \frac{9}{20} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad \frac{7}{16} \\ - \frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad \frac{1}{2} \\ - \frac{2}{15} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad \frac{1}{8} \\ + \frac{1}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad \frac{3}{8} \\ + \frac{1}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad \frac{5}{24} \\ + \frac{1}{2} \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad \frac{5}{16} \\ + \frac{1}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad \frac{3}{16} \\ + \frac{5}{12} \\ \hline \end{array}$$

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$$\begin{array}{r} \frac{5}{18} = \frac{20}{72} \\ + \frac{7}{24} = \frac{21}{72} \\ \hline \frac{41}{72} \end{array}$$

Recall - to find the LCD when denominators are larger composite numbers, place the denominators over each other, simplify, then cross multiply.

$$\begin{array}{r} 1. \quad 1/10 \\ + 3/35 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 15/32 \\ + 7/24 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 1/4 \\ + 1/15 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 5/16 \\ + 1/8 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 7/16 \\ - 3/40 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 1/2 \\ - 1/4 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 1/4 \\ - 1/4 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 5/12 \\ - 2/5 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 5/12 \\ - 2/15 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 1/2 \\ + 1/6 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 12/25 \\ - 1/5 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 13/28 \\ - 1/8 \\ \hline \end{array}$$

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$$\begin{array}{r} \frac{5}{18} = \frac{20}{72} \\ + \frac{7}{24} = \frac{21}{72} \\ \hline \frac{41}{72} \end{array}$$

Recall - to find the LCD when denominators are larger composite numbers, place the denominators over each other, simplify, then cross multiply.

$$\begin{array}{r} 1. \quad \frac{7}{16} \\ - \frac{1}{40} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad \frac{5}{12} \\ + \frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad \frac{1}{2} \\ - \frac{2}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad \frac{1}{9} \\ + \frac{2}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad \frac{1}{6} \\ - \frac{1}{24} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad \frac{7}{40} \\ - \frac{1}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad \frac{1}{4} \\ - \frac{1}{14} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad \frac{1}{4} \\ + \frac{11}{28} \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad \frac{9}{20} \\ + \frac{2}{5} \\ \hline \end{array}$$

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find CD;  $\frac{24}{18} = \frac{4}{3}$ ,  $\therefore$  CD is  $3 \times 24 = 72$

$$\begin{array}{r} \frac{5}{18} = \frac{20}{72} \\ + \frac{7}{24} = \frac{21}{72} \\ \hline \frac{41}{72} \end{array}$$

Recall - to find the LCD when denominators are larger composite numbers, place the denominators over each other, simplify, then cross multiply.

$$\begin{array}{r} 1. \quad 3/8 \\ + 1/14 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 1/2 \\ - 3/7 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 1/4 \\ + 1/8 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 1/6 \\ + 22/45 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 11/24 \\ + 13/40 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 11/24 \\ - 1/20 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 1/2 \\ - 4/15 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 1/12 \\ + 19/40 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 2/27 \\ + 1/9 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 1/4 \\ - 3/28 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 15/32 \\ - 1/6 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 1/2 \\ - 1/8 \\ \hline \end{array}$$

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Example  $5/18 + 7/24$   
find CD;  $\frac{24}{18} = \frac{4}{3}$ ,  $\therefore$  CD is  $3 \times 2$

$$\begin{array}{r} \frac{5}{18} = \frac{20}{72} \\ + \frac{7}{24} = \frac{21}{72} \\ \hline \frac{41}{72} \end{array}$$

Recall - to find the LCD when denominators are larger composite numbers, place the denominators over each other, simplify, then cross multiply.

$$\begin{array}{r} 1. \quad \frac{5}{16} \\ + \frac{1}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad \frac{7}{16} \\ + \frac{1}{24} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad \frac{11}{24} \\ + \frac{7}{40} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad \frac{3}{8} \\ - \frac{2}{7} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad \frac{7}{24} \\ + \frac{3}{20} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad \frac{5}{18} \\ + \frac{5}{24} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad \frac{5}{18} \\ + \frac{1}{2} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad \frac{1}{4} \\ + \frac{1}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad \frac{1}{3} \\ - \frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad \frac{3}{16} \\ + \frac{3}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad \frac{1}{4} \\ + \frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad \frac{7}{20} \\ + \frac{2}{35} \\ \hline \end{array}$$