Add & Subtract Mixed Fractions

February 11-19 10:40 AM

1. Convert any mixed fractions to improper fractions
2. Identify a common denominator and change the fractions (if needed)
3. Add or subtract (numerator only).
4. Simplify! 1. Reduce to lowest terms
   2. Write as a mixed number

Ex. Add or subtract:

① $2\frac{3}{4} + 1\frac{1}{6}$

$2\frac{3}{\times 4} + 1\frac{1}{\times 6}$

$\frac{3 \times 11}{3 \times 4} + \frac{1 \times 2}{6 \times 2}$

LCM: 4, 8, 12, 16, ... 6, 12, 18, ... CD = 12

$\frac{33}{12} + \frac{14}{12} = \frac{33+14}{12} = \frac{47}{12} = 3\frac{11}{12}$

② $5\frac{5}{12} - 1\frac{5}{8}$

$5\frac{5}{\times 12} - 1\frac{5}{\times 8}$

$\frac{2 \times 65}{2 \times 12} - \frac{13 \times 3}{8 \times 3}$

LCM: 12, 24, 36, ... 8, 16, 24, ... CD = 24

$\frac{130}{24} - \frac{39}{24} = \frac{130-39}{24} = \frac{91}{24} = 3\frac{19}{24}$

$$\frac{130}{24} - \frac{39}{24} = \frac{130-39}{24} = \frac{91}{24}^{-72} = 3\frac{19}{24}$$