Adding & Subtracting Fractions

I. Steps

A. w/ Subtraction: Use Same Change Opposite.

ex: $-\frac{1}{6} - \frac{4}{9}$

$-\frac{1\times 3}{6\times 3} + \left(-\frac{4\times 2}{9\times 2}\right)$

6, 12, 18 9, 18

1) Find the L.C.D. & rewrite the fractions.

$-\frac{3}{18} + \left(-\frac{8}{18}\right) = \boxed{\frac{-11}{18}}$

2) Adding? Same Signs or Subtracting? Diff. Signs

3) Simplify your answer, if necessary

II. Mixed #'s

A. Change the mixed #'s to improper fractions

ex: $\frac{5}{12} + \left(-2\frac{1}{8}\right)$

$\frac{5 \cdot 2}{12 \cdot 2} + \left(\frac{-17 \cdot 3}{8 \cdot 3}\right)$

12, 24

8, 16, 24

$\frac{10}{24} + \left(\frac{-51}{24}\right) = \boxed{\frac{-41}{24}}$

ex: $-\frac{2}{3} + \left(1\frac{1}{6}\right) - \frac{5}{8}$

$-\frac{1}{8}$