Adding and Subtracting Fractions

1. Add or Subtract as indicated.

a) $\dfrac{3}{2} - \dfrac{2}{3}$

b) $\dfrac{5}{4} + \dfrac{5}{6}$

c) $\dfrac{3}{2} - \dfrac{2}{3} + \dfrac{7}{6}$

d) $\dfrac{3}{2} - 2 + \dfrac{3}{4}$

Adding and Subtracting Fractions

1. Add or Subtract as indicated.

a) $\dfrac{3}{2} - \dfrac{2}{3}$ LCD=6

$\dfrac{3}{2}\left(\dfrac{3}{3}\right) - \dfrac{2}{3}\left(\dfrac{2}{2}\right)$

$\dfrac{9}{6} - \dfrac{4}{6}$

$\boxed{\dfrac{5}{6}}$

b) $\dfrac{5}{4} + \dfrac{5}{6}$ LCD=12

$\dfrac{5}{4}\left(\dfrac{3}{3}\right) + \dfrac{5}{6}\left(\dfrac{2}{2}\right)$

$\dfrac{15}{12} + \dfrac{10}{12}$

$\boxed{\dfrac{25}{12}}$

c) $\dfrac{3}{2} - \dfrac{2}{3} + \dfrac{7}{6}$ LCD=6

$\dfrac{3}{2}\left(\dfrac{3}{3}\right) - \dfrac{2}{3}\left(\dfrac{2}{2}\right) + \dfrac{7}{6}$

$\dfrac{9}{6} - \dfrac{4}{6} + \dfrac{7}{6}$

$\dfrac{9-4+7}{6}$

$\dfrac{5+7}{6}$

$\dfrac{12}{6}$

$\boxed{2}$

d) $\dfrac{3}{2} - 2 + \dfrac{3}{4}$

$\dfrac{3}{2} - \dfrac{2}{1} + \dfrac{3}{4}$ LCD=4

$\dfrac{3}{2}\left(\dfrac{2}{2}\right) - \dfrac{2}{1}\left(\dfrac{4}{4}\right) + \dfrac{3}{4}$

$\dfrac{6}{4} - \dfrac{8}{4} + \dfrac{3}{4}$

$\dfrac{6-8+3}{4}$

$\dfrac{-2+3}{4}$

$\boxed{\dfrac{1}{4}}$