

Adding and Subtracting Fractions

1. Add or Subtract as indicated.

a) $\frac{7}{4} - \frac{3}{5} + \frac{2}{3}$

b) $3 - \frac{2}{3} + \frac{1}{4}$

c) $-2 + \frac{5}{2} - \frac{5}{8}$

d) $\frac{3}{4} - \frac{7}{8} + \frac{2}{3} - \frac{5}{2}$

Part IV

Adding and Subtracting Fractions

1. Add or Subtract as indicated.

a) $\frac{7}{4} - \frac{3}{5} + \frac{2}{3}$ LCD=60 b) $3 - \frac{2}{3} + \frac{1}{4}$

$$\frac{7}{4}\left(\frac{15}{15}\right) - \frac{3}{5}\left(\frac{12}{12}\right) + \frac{2}{3}\left(\frac{20}{20}\right)$$

$$\frac{105}{60} - \frac{36}{60} + \frac{40}{60}$$

$$\frac{105 - 36 + 40}{60}$$

$$\boxed{\frac{109}{60}}$$

$$\frac{3}{1} - \frac{2}{3} + \frac{1}{4} \quad \text{LCD}=12$$

$$\frac{3}{1}\left(\frac{12}{12}\right) - \frac{2}{3}\left(\frac{4}{4}\right) + \frac{1}{4}\left(\frac{3}{3}\right)$$

$$\frac{36}{12} - \frac{8}{12} + \frac{3}{12}$$

$$\frac{36 - 8 + 3}{12}$$

$$\boxed{\frac{31}{12}}$$

c) $-2 + \frac{5}{2} - \frac{5}{8}$

$$-\frac{2}{1} + \frac{5}{2} - \frac{5}{8} \quad \text{LCD}=8$$

$$-\frac{2}{1}\left(\frac{8}{8}\right) + \frac{5}{2}\left(\frac{4}{4}\right) - \frac{5}{8}$$

$$-\frac{16}{8} + \frac{20}{8} - \frac{5}{8}$$

$$\frac{-16 + 20 - 5}{8}$$

$$\boxed{-\frac{1}{8} \text{ or } -\frac{1}{8}}$$

d) $\frac{3}{4} - \frac{7}{8} + \frac{2}{3} - \frac{5}{2}$

LCD=24

$$\frac{3}{4}\left(\frac{6}{6}\right) - \frac{7}{8}\left(\frac{3}{3}\right) + \frac{2}{3}\left(\frac{8}{8}\right) - \frac{5}{2}\left(\frac{12}{12}\right)$$

$$\frac{18}{24} - \frac{21}{24} + \frac{16}{24} - \frac{60}{24}$$

$$\frac{18 - 21 + 16 - 60}{24}$$

$$\frac{-3 + 16 - 60}{24}$$

$$\frac{13 - 60}{24}$$

$$\boxed{-\frac{47}{24}}$$