

Adding and Subtracting Fractions

1. Add or subtract as indicated.

a) $2 + \frac{3}{4}$

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

c) $4 + \frac{5}{6} - 2$

d) $-3 + \frac{1}{2} - \frac{1}{3}$

Adding and Subtracting Fractions

1. Add or subtract as indicated.

a) $2 + \frac{3}{4}$

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

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

$$\frac{8}{4} + \frac{3}{4}$$

$$\boxed{\frac{11}{4}}$$

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

$$\frac{4}{4} - \frac{3}{4}$$

$$\frac{4-3}{4}$$

$$\boxed{\frac{1}{4}}$$

c) $4 + \frac{5}{6} - 2$

$$\frac{4}{1} + \frac{5}{6} - \frac{2}{1} \quad \text{LCD} = 6$$

$$\frac{4}{1} \left(\frac{6}{6} \right) + \frac{5}{6} - \frac{2}{1} \left(\frac{6}{6} \right)$$

$$\frac{24}{6} + \frac{5}{6} - \frac{12}{6}$$

$$\frac{24+5-12}{6}$$

$$\frac{29-12}{6}$$

$$\boxed{\frac{17}{6}}$$

d) $-3 + \frac{1}{2} - \frac{1}{3}$

$$-\frac{3}{1} + \frac{1}{2} - \frac{1}{3} \quad \text{LCD} = 6$$

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

$$-\frac{18}{6} + \frac{3}{6} - \frac{2}{6}$$

$$\frac{-18+3-2}{6}$$

$$\frac{-15-2}{6}$$

$$\boxed{\frac{-17}{6} \text{ or } -\frac{17}{6}}$$