

FRACTIONS

ADDITION AND SUBTRACTION

Example

Find: **a** $\frac{3}{8} + \frac{1}{2}$ **b** $\frac{3}{4} - \frac{2}{3} + \frac{1}{2}$

$$\begin{aligned} \text{a} \quad & \frac{3}{8} + \frac{1}{2} \\ &= \frac{3}{8} + \frac{1 \times 4}{2 \times 4} \\ &= \frac{3}{8} + \frac{4}{8} \quad \{\text{LCD} = 8\} \\ &= \frac{7}{8} \quad \{\text{adding numerators}\} \end{aligned}$$

$$\begin{aligned} \text{b} \quad & \frac{3}{4} - \frac{2}{3} + \frac{1}{2} \\ &= \frac{3 \times 3}{4 \times 3} - \frac{2 \times 4}{3 \times 4} + \frac{1 \times 6}{2 \times 6} \\ &= \frac{9}{12} - \frac{8}{12} + \frac{6}{12} \quad \{\text{LCD} = 12\} \\ &= \frac{9-8+6}{12} \\ &= \frac{7}{12} \end{aligned}$$

Find:

a $\frac{2}{5} + \frac{1}{2}$

b $\frac{3}{5} - \frac{1}{4}$

c $\frac{1}{3} - \frac{1}{2}$

d $\frac{2}{3} + \frac{4}{5}$

e $\frac{3}{7} - \frac{1}{2}$

f $-\frac{1}{2} + \frac{3}{4}$

g $-\frac{2}{3} - \frac{5}{6}$

h $\frac{1}{6} + \frac{3}{2}$

i $\frac{1}{10} - \frac{4}{5}$

j $\frac{7}{9} + \frac{2}{3}$

k $\frac{5}{8} - \frac{7}{4}$

l $-\frac{5}{7} + \frac{11}{14}$

