

Adding and Subtracting Fractions

1. Add or subtract the following fractions. Where necessary, answer as an improper fraction and a mixed number.

a. $\frac{3}{8} + \frac{2}{8}$

b. $\frac{9}{10} + \frac{7}{10}$

c. $\frac{7}{9} + \frac{2}{5}$

d. $\frac{11}{7} - \frac{3}{4}$

e. $\frac{5}{3} - \frac{7}{8}$

f. $\frac{7}{4} + \frac{11}{9}$

g. $\frac{3}{4} + \frac{3}{10}$

h. $\frac{6}{3} - \frac{5}{4}$

i. $\frac{7}{8} - \frac{2}{5}$

j. $\frac{7}{8} + \frac{9}{5}$

k. $\frac{7}{9} - \frac{2}{5}$

l. $\frac{7}{3} - \frac{1}{8}$

2. Add or subtract the following mixed numbers. Where necessary, answer as an improper fraction and a mixed number.

a. $5\frac{1}{10} + 1\frac{2}{5}$

b. $4\frac{2}{3} - 3\frac{1}{5}$

c. $1\frac{1}{2} + \frac{3}{4} + \frac{1}{6}$

d. $9\frac{7}{8} - 3\frac{1}{2}$

e. $2\frac{5}{9} - 1\frac{3}{4}$

f. $1\frac{1}{2} - \frac{5}{6}$

g. $1\frac{4}{9} - 1\frac{1}{3}$

h. $2\frac{2}{3} - 1\frac{1}{6}$

i. $6\frac{2}{5} - 5\frac{4}{9}$

j. $1\frac{1}{4} + \frac{5}{6}$

k. $\frac{3}{10} + 2\frac{4}{15}$

l. $4\frac{5}{8} + 2\frac{2}{3}$

m. $1\frac{3}{5} - \frac{3}{10}$

n. $8\frac{1}{5} - 4\frac{2}{3}$

o. $1\frac{2}{3} + 1\frac{3}{4} - 1\frac{5}{6}$

Answers

1. a) $\frac{5}{8}$ b) $\frac{8}{5}, 1\frac{3}{5}$ c) $\frac{53}{45}, 1\frac{8}{45}$ d) $\frac{23}{28}$ e) $\frac{19}{24}$ f) $\frac{107}{36}, 2\frac{35}{36}$ g) $\frac{21}{20}, 1\frac{1}{20}$ h) $\frac{3}{4}$

i) $\frac{19}{40}$ j) $\frac{107}{40}, 2\frac{27}{40}$ k) $\frac{17}{45}$ l) $\frac{53}{24}, 2\frac{5}{24}$

2. a) $\frac{13}{2}, 6\frac{1}{2}$ b) $\frac{22}{15}, 1\frac{7}{15}$ c) $\frac{29}{12}, 2\frac{5}{12}$ d) $\frac{51}{8}, 6\frac{3}{8}$ e) $\frac{29}{36}$ f) $\frac{2}{3}$ g) $\frac{1}{9}$ h) $\frac{3}{2}, 1\frac{1}{2}$

i) $\frac{43}{45}$ j) $\frac{25}{12}, 2\frac{1}{12}$ k) $\frac{77}{30}, 2\frac{17}{30}$ l) $\frac{175}{24}, 7\frac{7}{24}$ m) $\frac{13}{10}, 1\frac{3}{10}$ n) $\frac{53}{15}, 3\frac{8}{15}$ o) $\frac{19}{12}, 1\frac{7}{12}$