

## Bruchrechnen: Addition und Subtraktion 2

1) Addiere und kürze das Ergebnis so weit wie möglich:

a) $\frac{3}{4} + \frac{5}{8} =$	b) $\frac{3}{5} + \frac{7}{10} =$	c) $\frac{5}{6} + \frac{1}{3} =$	d) $\frac{4}{9} + \frac{2}{3} =$
e) $\frac{5}{7} + \frac{1}{2} =$	f) $\frac{3}{7} + \frac{1}{5} =$	g) $\frac{1}{6} + \frac{5}{8} =$	h) $\frac{5}{12} + \frac{11}{16} =$
i) $\frac{6}{11} + \frac{2}{5} =$	j) $\frac{9}{25} + \frac{7}{10} =$	k) $\frac{13}{24} + \frac{5}{18} =$	l) $\frac{4}{9} + \frac{11}{15} =$

2) Subtrahiere und kürze soweit wie möglich:

a) $\frac{6}{7} - \frac{3}{14} =$	b) $\frac{5}{8} - \frac{1}{4} =$	c) $\frac{3}{5} - \frac{1}{2} =$	d) $\frac{3}{10} - \frac{1}{16} =$
e) $\frac{7}{12} - \frac{3}{8} =$	f) $\frac{7}{9} - \frac{5}{12} =$	g) $\frac{59}{100} - \frac{11}{25} =$	h) $\frac{27}{32} - \frac{5}{24} =$
i) $\frac{17}{22} - \frac{1}{2} =$	j) $\frac{25}{27} - \frac{7}{18} =$	k) $\frac{33}{35} - \frac{15}{28} =$	l) $\frac{2}{3} - \frac{5}{12} =$

3) Berechne und kürze soweit wie möglich:

a) $\frac{17}{20} - \frac{6}{15} =$	b) $\frac{6}{10} - \frac{9}{25} =$	c) $\frac{19}{30} + \frac{3}{8} =$	d) $\frac{6}{7} + \frac{5}{8} =$
e) $\frac{16}{21} - \frac{11}{24} =$	f) $\frac{15}{26} - \frac{4}{13} =$	g) $\frac{31}{42} + \frac{7}{24} =$	h) $\frac{9}{15} - \frac{13}{25} =$
i) $\frac{5}{36} + \frac{4}{27} =$	j) $\frac{17}{28} + \frac{11}{12} =$	k) $\frac{7}{8} - \frac{23}{30} =$	l) $\frac{22}{45} - \frac{11}{30} =$

## Lösungen:

1) Addiere und kürze das Ergebnis so weit wie möglich:

$$\text{a) } \frac{3}{4} + \frac{5}{8} = \frac{6}{8} + \frac{5}{8} = \frac{11}{8} = 1\frac{3}{8}$$

$$\text{b) } \frac{3}{5} + \frac{7}{10} = \frac{6}{10} + \frac{7}{10} = \frac{13}{10} = 1\frac{3}{10}$$

$$\text{c) } \frac{5}{6} + \frac{1}{3} = \frac{5}{6} + \frac{2}{6} = \frac{7}{6} = 1\frac{1}{6}$$

$$\text{d) } \frac{4}{9} + \frac{2}{3} = \frac{4}{9} + \frac{6}{9} = \frac{10}{9} = 1\frac{1}{9}$$

$$\text{e) } \frac{5}{7} + \frac{1}{2} = \frac{10}{14} + \frac{7}{14} = \frac{17}{14} = 1\frac{3}{14}$$

$$\text{f) } \frac{3}{7} + \frac{1}{5} = \frac{15}{35} + \frac{7}{35} = \frac{22}{35}$$

$$\text{g) } \frac{1}{6} + \frac{5}{8} = \frac{4}{24} + \frac{15}{24} = \frac{19}{24}$$

$$\text{h) } \frac{5}{12} + \frac{11}{16} = \frac{20}{48} + \frac{33}{48} = \frac{53}{48} = 1\frac{5}{48}$$

$$\text{i) } \frac{6}{11} + \frac{2}{5} = \frac{30}{55} + \frac{22}{55} = \frac{52}{55}$$

$$\text{j) } \frac{9}{25} + \frac{7}{10} = \frac{18}{50} + \frac{35}{50} = \frac{53}{50} = 1\frac{3}{50}$$

$$\text{k) } \frac{13}{24} + \frac{5}{18} = \frac{39}{72} + \frac{20}{72} = \frac{59}{72}$$

$$\text{l) } \frac{4}{9} + \frac{11}{15} = \frac{20}{45} + \frac{33}{45} = \frac{53}{45} = 1\frac{8}{45}$$

2) Subtrahiere und kürze soweit wie möglich:

$$\text{a) } \frac{6}{7} - \frac{3}{14} = \frac{12}{14} - \frac{3}{14} = \frac{9}{14}$$

$$\text{b) } \frac{5}{8} - \frac{1}{4} = \frac{5}{8} - \frac{2}{8} = \frac{3}{8}$$

$$\text{c) } \frac{3}{5} - \frac{1}{2} = \frac{6}{10} - \frac{5}{10} = \frac{1}{10}$$

$$\text{d) } \frac{3}{10} - \frac{1}{16} = \frac{24}{80} - \frac{5}{80} = \frac{19}{80}$$

$$\text{e) } \frac{7}{12} - \frac{3}{8} = \frac{14}{24} - \frac{9}{24} = \frac{5}{24}$$

$$\text{f) } \frac{7}{9} - \frac{5}{12} = \frac{28}{36} - \frac{15}{36} = \frac{13}{36}$$

$$\text{g) } \frac{59}{100} - \frac{11}{25} = \frac{59}{100} - \frac{44}{100} = \frac{15}{100} = \frac{3}{20}$$

$$\text{h) } \frac{27}{32} - \frac{5}{24} = \frac{81}{96} - \frac{20}{96} = \frac{61}{96}$$

$$\text{i) } \frac{17}{22} - \frac{1}{2} = \frac{17}{22} - \frac{11}{22} = \frac{6}{22} = \frac{3}{11}$$

$$\text{j) } \frac{25}{27} - \frac{7}{18} = \frac{50}{54} - \frac{21}{54} = \frac{29}{54}$$

$$\text{k) } \frac{33}{35} - \frac{15}{28} = \frac{132}{140} - \frac{75}{140} = \frac{57}{140}$$

$$\text{l) } \frac{2}{3} - \frac{5}{12} = \frac{8}{12} - \frac{5}{12} = \frac{3}{12} = \frac{1}{4}$$

3) Berechne und kürze soweit wie möglich:

$$\text{a) } \frac{17}{20} - \frac{6}{15} = \frac{51}{60} - \frac{24}{60} = \frac{27}{60} = \frac{9}{20} \quad \text{b) } \frac{6}{10} - \frac{9}{25} = \frac{30}{50} - \frac{18}{50} = \frac{12}{50} = \frac{6}{25}$$

$$\text{c) } \frac{19}{30} + \frac{3}{8} = \frac{76}{120} + \frac{45}{120} = \frac{121}{120} = 1\frac{1}{120} \quad \text{d) } \frac{6}{7} + \frac{5}{8} = \frac{48}{56} + \frac{35}{56} = \frac{83}{56} = 1\frac{27}{56}$$

$$\text{e) } \frac{16}{21} - \frac{11}{24} = \frac{128}{168} - \frac{77}{168} = \frac{51}{168} = \frac{17}{56} \quad \text{f) } \frac{15}{26} - \frac{4}{13} = \frac{15}{26} - \frac{8}{26} = \frac{7}{26}$$

$$\text{g) } \frac{31}{42} + \frac{7}{24} = \frac{124}{168} + \frac{49}{168} = \frac{173}{168} = 1\frac{5}{168}$$

$$\text{h) } \frac{9}{15} - \frac{13}{25} = \frac{45}{75} - \frac{39}{75} = \frac{6}{75} = \frac{2}{25}$$

$$\text{i) } \frac{5}{36} + \frac{4}{27} = \frac{15}{108} + \frac{16}{108} = \frac{31}{108}$$

$$\text{j) } \frac{17}{28} + \frac{11}{12} = \frac{51}{84} + \frac{77}{84} = \frac{128}{84} = \frac{32}{21} = 1\frac{11}{21}$$

$$\text{k) } \frac{7}{8} - \frac{23}{30} = \frac{105}{120} - \frac{92}{120} = \frac{13}{120} \quad \text{l) } \frac{22}{45} - \frac{11}{30} = \frac{44}{90} - \frac{33}{90} = \frac{11}{90}$$