

Brüche addieren und subtrahieren

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A $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \underline{\underline{\frac{5}{6}}}$ B $\frac{2}{3} + \frac{1}{6} = \frac{4}{6} + \frac{1}{6} = \underline{\underline{\frac{5}{6}}}$ C $\frac{2}{5} + \frac{3}{10} = \frac{4}{10} + \frac{3}{10} = \underline{\underline{\frac{7}{10}}}$

$\frac{1}{3} + \frac{1}{4} = \frac{4}{12} + \frac{3}{12} = \underline{\underline{\frac{7}{12}}}$ $\frac{3}{4} + \frac{1}{8} = \frac{6}{8} + \frac{1}{8} = \underline{\underline{\frac{7}{8}}}$ $\frac{3}{8} + \frac{7}{10} = \frac{15}{40} + \frac{28}{40} = \underline{\underline{\frac{43}{40}}}$

$\frac{1}{4} + \frac{1}{5} = \frac{5}{20} + \frac{4}{20} = \underline{\underline{\frac{9}{20}}}$ $\frac{4}{5} + \frac{1}{10} = \frac{8}{10} + \frac{1}{10} = \underline{\underline{\frac{9}{10}}}$ $\frac{3}{4} + \frac{3}{10} = \frac{15}{20} + \frac{6}{20} = \underline{\underline{\frac{21}{20}}}$

D $\frac{7}{8} + \frac{1}{2} = \frac{7}{8} + \frac{4}{8} = \underline{\underline{\frac{11}{8}}}$ E $\frac{5}{6} + \frac{2}{3} = \frac{5}{6} + \frac{4}{6} = \frac{9}{6} = \underline{\underline{\frac{3}{2}}}$ F $\frac{4}{5} - \frac{3}{8} = \frac{32}{40} - \frac{15}{40} = \underline{\underline{\frac{17}{40}}}$

$\frac{7}{8} - \frac{1}{4} = \frac{7}{8} - \frac{2}{8} = \underline{\underline{\frac{5}{8}}}$ $\frac{3}{4} - \frac{5}{8} = \frac{6}{8} - \frac{5}{8} = \underline{\underline{\frac{1}{8}}}$ $\frac{7}{6} - \frac{2}{3} = \frac{7}{6} - \frac{4}{6} = \frac{3}{6} = \underline{\underline{\frac{1}{2}}}$

$\frac{7}{8} - \frac{1}{3} = \frac{21}{24} - \frac{8}{24} = \underline{\underline{\frac{13}{24}}}$ $\frac{2}{3} - \frac{5}{12} = \frac{8}{12} - \frac{5}{12} = \frac{3}{12} = \underline{\underline{\frac{1}{4}}}$ $\frac{9}{8} - \frac{5}{6} = \frac{27}{24} - \frac{20}{24} = \underline{\underline{\frac{7}{24}}}$

Brüche erweitern und kürzen

6 Schreibe die Brüche anders, ohne ihren Wert zu verändern.

A $\frac{1}{4} = \frac{3}{12}$
 $\frac{2}{5} = \frac{10}{25}$
 $\frac{3}{8} = \frac{15}{40}$

B $\frac{3}{4} = \frac{12}{16}$
 $\frac{4}{5} = \frac{12}{15}$
 $\frac{6}{8} = \frac{12}{16}$

C $\frac{16}{24} = \frac{4}{6}$
 $\frac{18}{24} = \frac{3}{4}$
 $\frac{20}{24} = \frac{10}{12}$

D $\frac{15}{20} = \frac{3}{4}$
 $\frac{8}{20} = \frac{2}{5}$
 $\frac{9}{24} = \frac{3}{8}$

7 Vergleiche die beiden Brüche (< oder >).

A $\frac{3}{4} = \frac{15}{20}$ $\frac{7}{10} = \frac{14}{20}$ $\Rightarrow \underline{\underline{\frac{3}{4} > \frac{7}{10}}}$

B $\frac{5}{8} = \frac{45}{72}$ $\frac{7}{9} = \frac{56}{72}$ $\Rightarrow \underline{\underline{\frac{5}{8} < \frac{7}{9}}}$

C $\frac{4}{9} = \frac{40}{90}$ $\frac{9}{10} = \frac{81}{90}$ $\Rightarrow \underline{\underline{\frac{4}{9} < \frac{9}{10}}}$

D $\frac{4}{5} = \frac{12}{15}$ $\frac{7}{15}$ $\Rightarrow \underline{\underline{\frac{4}{5} > \frac{7}{15}}}$

Kürzen

8 Kürze so weit als möglich.

A $\frac{36}{48} = \frac{3}{4}$ $\frac{36}{50} = \frac{18}{25}$ $\frac{36}{42} = \frac{6}{7}$

B $\frac{5}{25} = \frac{1}{5}$ $\frac{24}{30} = \frac{4}{5}$ $\frac{21}{30} = \frac{7}{10}$