

Klassenarbeitstraining: Brüche - Kürzen, Erweitern und Addieren

Berechne. Kürze möglicherweise zuerst.

a) $\frac{72}{56} + \frac{49}{42} = \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} = \underline{\quad} = \underline{\quad}$

b) $\frac{5}{5} + \frac{12}{16} = \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} = \underline{\quad} = \underline{\quad}$

c) $\frac{10}{5} + \frac{24}{54} = \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} = \underline{\quad} = \underline{\quad}$

d) $\frac{10}{40} + \frac{4}{4} = \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} = \underline{\quad} = \underline{\quad}$

e) $\frac{3}{12} + \frac{20}{6} = \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} = \underline{\quad} = \underline{\quad}$

f) $\frac{40}{45} + \frac{81}{72} = \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} = \underline{\quad} = \underline{\quad}$

g) $\frac{8}{18} + \frac{25}{15} = \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} = \underline{\quad} = \underline{\quad}$

h) $\frac{12}{4} + \frac{48}{42} = \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} = \underline{\quad} = \underline{\quad}$

i) $\frac{21}{30} + \frac{40}{16} = \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} = \underline{\quad} = \underline{\quad}$

j) $\frac{3}{6} + \frac{5}{5} = \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} = \underline{\quad} = \underline{\quad}$

k) $\frac{32}{36} + \frac{18}{9} + \frac{5}{5} = \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} = \underline{\quad}$

l) $\frac{7}{14} + \frac{4}{2} + \frac{63}{28} = \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} = \underline{\quad}$

m) $\frac{30}{80} + \frac{18}{60} + \frac{4}{2} = \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} = \underline{\quad}$

n) $\frac{35}{56} + \frac{7}{14} + \frac{18}{15} = \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} = \underline{\quad}$

o) $\frac{18}{9} + \frac{14}{12} + \frac{30}{35} = \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} = \underline{\quad}$

Lösung:

Berechne. Kürze möglicherweise zuerst.

a) $\frac{72}{56} + \frac{49}{42} = \frac{9}{7} + \frac{7}{6} = \frac{54}{42} + \frac{49}{42} = \frac{103}{42} = \underline{\quad}$

b) $\frac{5}{5} + \frac{12}{16} = \frac{1}{1} + \frac{3}{4} = \frac{4}{4} + \frac{3}{4} = \frac{7}{4} = \underline{\quad}$

c) $\frac{10}{5} + \frac{24}{54} = \frac{2}{1} + \frac{4}{9} = \frac{18}{9} + \frac{4}{9} = \frac{22}{9} = \underline{\quad}$

d) $\frac{10}{40} + \frac{4}{4} = \frac{1}{4} + \frac{1}{1} = \frac{1}{4} + \frac{4}{4} = \frac{5}{4} = \underline{\quad}$

e) $\frac{3}{12} + \frac{20}{6} = \frac{1}{4} + \frac{10}{3} = \frac{3}{12} + \frac{40}{12} = \frac{43}{12} = \underline{\quad}$

f) $\frac{40}{45} + \frac{81}{72} = \frac{8}{9} + \frac{9}{8} = \frac{64}{72} + \frac{81}{72} = \frac{145}{72} = \underline{\quad}$

g) $\frac{8}{18} + \frac{25}{15} = \frac{4}{9} + \frac{5}{3} = \frac{4}{9} + \frac{15}{9} = \frac{19}{9} = \underline{\quad}$

h) $\frac{12}{4} + \frac{48}{42} = \frac{3}{1} + \frac{8}{7} = \frac{21}{7} + \frac{8}{7} = \frac{29}{7} = \underline{\quad}$

i) $\frac{21}{30} + \frac{40}{16} = \frac{7}{10} + \frac{5}{2} = \frac{7}{10} + \frac{25}{10} = \frac{32}{10} = \frac{16}{5} = \underline{\quad}$

j) $\frac{3}{6} + \frac{5}{5} = \frac{1}{2} + \frac{1}{1} = \frac{1}{2} + \frac{2}{2} = \frac{3}{2} = \underline{\quad}$

k) $\frac{32}{36} + \frac{18}{9} + \frac{5}{5} = \frac{8}{9} + \frac{2}{1} + \frac{1}{1} = \frac{8}{9} + \frac{18}{9} + \frac{9}{9} = \frac{35}{9} = \underline{\quad}$

l) $\frac{7}{14} + \frac{4}{2} + \frac{63}{28} = \frac{1}{2} + \frac{2}{1} + \frac{9}{4} = \frac{2}{4} + \frac{8}{4} + \frac{9}{4} = \frac{19}{4} = \underline{\quad}$

m) $\frac{30}{80} + \frac{18}{60} + \frac{4}{2} = \frac{3}{8} + \frac{3}{10} + \frac{2}{1} = \frac{15}{40} + \frac{12}{40} + \frac{80}{40} = \frac{107}{40} = \underline{\quad}$

n) $\frac{35}{56} + \frac{7}{14} + \frac{18}{15} = \frac{5}{8} + \frac{1}{2} + \frac{6}{5} = \frac{25}{40} + \frac{20}{40} + \frac{48}{40} = \frac{93}{40} = \underline{\quad}$

o) $\frac{18}{9} + \frac{14}{12} + \frac{30}{35} = \frac{2}{1} + \frac{7}{6} + \frac{6}{7} = \frac{84}{42} + \frac{49}{42} + \frac{36}{42} = \frac{169}{42} = \underline{\quad}$