

Selbsttest Bruchrechnung 6

Aufgaben

a) $\frac{\left(-\frac{5}{8} - \frac{-5}{-12}\right) \cdot \frac{-3}{-16}}{\left(\frac{8}{-15} + \frac{3}{-10}\right) \cdot \frac{-2}{13}}$

b) $\frac{\left(-\frac{11}{12} + \frac{11}{9} - \frac{6}{-7} + \frac{-13}{-11}\right) \cdot \frac{14}{5}}{\left(\frac{3}{-10} + \frac{5}{16} - \frac{-8}{9} - \frac{3}{-16}\right) \cdot \frac{-1}{4}}$

c) $\frac{\left(\frac{1}{-14} - \frac{10}{-11} + \frac{-5}{6}\right) \cdot \frac{-10}{-13}}{\left(-\frac{16}{9} + \frac{-13}{12} - \frac{-1}{9}\right) \cdot \frac{-15}{-14}}$

d) $\frac{\left(\frac{-11}{3} + \frac{4}{3} + \frac{5}{14} - \frac{-5}{-16}\right) \cdot \frac{11}{-13}}{\left(-\frac{1}{-13} + \frac{-5}{-2} + \frac{-13}{-7} + \frac{-9}{16}\right) \cdot \frac{-1}{-13}}$

e) $\frac{\left(-\frac{-14}{9} - \frac{3}{-2} + \frac{-15}{-14} + \frac{-1}{-15}\right) \cdot \frac{-11}{-4}}{\left(\frac{-1}{-9} - \frac{-2}{-3} - \frac{-15}{4} - \frac{-8}{9}\right) \cdot \frac{14}{11}}$

f) $\frac{\left(-\frac{5}{-3} + \frac{13}{8} + \frac{11}{7}\right) \cdot \frac{1}{-11}}{\left(\frac{-7}{-2} - \frac{-5}{-11} - \frac{-11}{-16}\right) \cdot \frac{13}{-6}}$

g) $\frac{\left(\frac{5}{-13} + \frac{2}{9} - \frac{13}{-16} - \frac{13}{-2}\right) \cdot \frac{14}{-5}}{\left(-\frac{3}{8} + \frac{14}{-15} - \frac{8}{-15} - \frac{-7}{9}\right) \cdot \frac{-9}{14}}$

h) $\frac{\left(\frac{-1}{8} - \frac{-13}{-15} + \frac{-8}{-13}\right) \cdot \frac{-6}{11}}{\left(-\frac{-3}{-4} - \frac{-9}{5} - \frac{7}{6}\right) \cdot \frac{-1}{11}}$

i) $\frac{\left(\frac{-7}{-13} + \frac{11}{-14}\right) \cdot \frac{-5}{-6}}{\left(-\frac{5}{8} + \frac{11}{-5}\right) \cdot \frac{-3}{-10}}$

j) $\frac{\left(\frac{-5}{-16} + \frac{5}{16}\right) \cdot \frac{-8}{15}}{\left(-\frac{16}{3} - \frac{-12}{-13}\right) \cdot \frac{3}{-16}}$

Selbsttest Bruchrechnung 6

Lösungen

a) $\frac{(-\frac{5}{-8} - \frac{-5}{-12}) \cdot \frac{-3}{-16}}{(\frac{8}{-15} + \frac{3}{-10}) \cdot \frac{-2}{13}}$ L: $\frac{39}{128}$ ¶

b) $\frac{(-\frac{11}{12} + \frac{11}{9} - \frac{6}{-7} + \frac{-13}{-11}) \cdot \frac{14}{5}}{(\frac{3}{-10} + \frac{5}{16} - \frac{-8}{9} - \frac{3}{-16}) \cdot \frac{-1}{4}}$ L: $-\frac{12998}{539}$ ¶

c) $\frac{(\frac{1}{-14} - \frac{10}{-11} + \frac{-5}{6}) \cdot \frac{-10}{-13}}{(\frac{-16}{9} + \frac{-13}{12} - \frac{-1}{9}) \cdot \frac{-15}{-14}}$ L: $-\frac{16}{14157}$ ¶

d) $\frac{(\frac{-11}{3} + \frac{4}{3} + \frac{5}{14} - \frac{-5}{16}) \cdot \frac{11}{-13}}{(-\frac{1}{-13} + \frac{-5}{-2} + \frac{-13}{-7} + \frac{-9}{16}) \cdot \frac{-1}{-13}}$ L: $\frac{79937}{16911}$ ¶

e) $\frac{(-\frac{-14}{-9} - \frac{3}{-2} + \frac{-15}{-14} + \frac{-1}{-15}) \cdot \frac{-11}{-4}}{(-\frac{1}{-9} - \frac{-2}{-3} - \frac{-15}{4} - \frac{-8}{9}) \cdot \frac{14}{11}}$ L: $\frac{41261}{72030}$ ¶

f) $\frac{(-\frac{5}{-3} + \frac{13}{8} + \frac{11}{7}) \cdot \frac{1}{-11}}{(-\frac{7}{-2} - \frac{-5}{-11} - \frac{-11}{-16}) \cdot \frac{13}{-6}}$ L: $\frac{3268}{52325}$ ¶

g) $\frac{(\frac{5}{-13} + \frac{2}{9} - \frac{13}{-16} - \frac{13}{-2}) \cdot \frac{14}{-5}}{(-\frac{3}{8} + \frac{14}{-15} - \frac{8}{-15} - \frac{-7}{9}) \cdot \frac{-9}{14}}$ L: $\frac{1013614}{117}$ ¶

h) $\frac{(-\frac{1}{8} - \frac{-13}{-15} + \frac{-8}{-13}) \cdot \frac{-6}{11}}{(-\frac{-3}{-4} - \frac{-9}{5} - \frac{7}{6}) \cdot \frac{-1}{11}}$ L: $\frac{1761}{91}$ ¶

i) $\frac{(-\frac{7}{-13} + \frac{11}{-14}) \cdot \frac{-5}{-6}}{(-\frac{5}{8} + \frac{11}{-5}) \cdot \frac{-3}{-10}}$ L: $\frac{2500}{5733}$ ¶

j) $\frac{(-\frac{5}{-16} + \frac{5}{16}) \cdot \frac{-8}{15}}{(-\frac{16}{3} - \frac{-12}{-13}) \cdot \frac{3}{-16}}$ L: $-\frac{52}{183}$ ¶