

## Selbsttest Bruchrechnung 5

### Aufgaben

$$\text{a) } \frac{\left(\frac{-13}{-10} + \frac{10}{11}\right) \cdot \frac{-9}{16}}{\left(\frac{13}{-12} + \frac{-15}{8}\right) \cdot \frac{5}{-7}}$$

$$\text{b) } \frac{\left(\frac{-13}{2} - \frac{-11}{14}\right) \cdot \frac{-1}{-6}}{\left(\frac{3}{-4} + \frac{15}{-13}\right) \cdot \frac{4}{7}}$$

$$\text{c) } \frac{\left(\frac{-13}{-6} + \frac{9}{-7}\right) \cdot \frac{13}{10}}{\left(\frac{-16}{-5} - \frac{4}{-15}\right) \cdot \frac{-8}{9}}$$

$$\text{d) } \frac{\left(\frac{-9}{13} - \frac{-9}{-7}\right) \cdot \frac{9}{-7}}{\left(\frac{-10}{-11} - \frac{-14}{-15}\right) \cdot \frac{-10}{13}}$$

$$\text{e) } \frac{\left(\frac{-3}{-14} + \frac{8}{13}\right) \cdot \frac{9}{-16}}{\left(\frac{-7}{15} - \frac{3}{10}\right) \cdot \frac{-6}{7}}$$

$$\text{f) } \frac{\left(\frac{15}{-8} - \frac{6}{-13}\right) \cdot \frac{-12}{-7}}{\left(\frac{11}{8} - \frac{16}{3}\right) \cdot \frac{2}{-9}}$$

$$\text{g) } \frac{\left(\frac{-9}{-14} + \frac{-1}{-6}\right) \cdot \frac{-3}{13}}{\left(\frac{7}{-12} + \frac{3}{2}\right) \cdot \frac{5}{14}}$$

$$\text{h) } \frac{\left(\frac{-13}{-16} + \frac{-9}{16}\right) \cdot \frac{-7}{6}}{\left(\frac{9}{8} - \frac{8}{-15}\right) \cdot \frac{-7}{3}}$$

$$\text{i) } \frac{\left(\frac{15}{2} - \frac{7}{-12}\right) \cdot \frac{-13}{-6}}{\left(\frac{-11}{-15} + \frac{-4}{3}\right) \cdot \frac{2}{-7}}$$

$$\text{j) } \frac{\left(\frac{-11}{5} - \frac{-5}{-3}\right) \cdot \frac{-15}{-14}}{\left(\frac{-7}{2} + \frac{-7}{-4}\right) \cdot \frac{8}{7}}$$

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### Lösungen

$$\text{a) } \frac{\left(\frac{-13}{-10} + \frac{10}{11}\right) \cdot \frac{-9}{16}}{\left(\frac{13}{-12} + \frac{-15}{8}\right) \cdot \frac{-5}{-7}} \quad \text{L: } \frac{8127}{78100} \quad \text{¶}$$

$$\text{b) } \frac{\left(\frac{-13}{2} - \frac{-11}{14}\right) \cdot \frac{-1}{-6}}{\left(\frac{3}{-4} + \frac{15}{-13}\right) \cdot \frac{4}{7}} \quad \text{L: } \frac{260}{297} \quad \text{¶}$$

$$\text{c) } \frac{\left(\frac{-13}{-6} + \frac{9}{-7}\right) \cdot \frac{13}{10}}{\left(\frac{-16}{-5} - \frac{4}{-15}\right) \cdot \frac{-8}{9}} \quad \text{L: } -\frac{16965}{9856} \quad \text{¶}$$

$$\text{d) } \frac{\left(\frac{-9}{13} - \frac{-9}{-7}\right) \cdot \frac{9}{-7}}{\left(\frac{-10}{-11} - \frac{-14}{-15}\right) \cdot \frac{-10}{13}} \quad \text{L: } \frac{13365}{98} \quad \text{¶}$$

$$\text{e) } \frac{\left(\frac{-3}{-14} + \frac{8}{13}\right) \cdot \frac{9}{-16}}{\left(\frac{-7}{15} - \frac{3}{10}\right) \cdot \frac{-6}{7}} \quad \text{L: } \frac{657}{416} \quad \text{¶}$$

$$\text{f) } \frac{\left(\frac{15}{-8} - \frac{6}{-13}\right) \cdot \frac{-12}{-7}}{\left(\frac{11}{8} - \frac{16}{3}\right) \cdot \frac{2}{-9}} \quad \text{L: } -\frac{3402}{1235} \quad \text{¶}$$

$$\text{g) } \frac{\left(\frac{-9}{-14} + \frac{-1}{-6}\right) \cdot \frac{-3}{13}}{\left(\frac{7}{-12} + \frac{3}{2}\right) \cdot \frac{5}{14}} \quad \text{L: } \frac{48}{143} \quad \text{¶}$$

$$\text{h) } \frac{\left(\frac{-13}{-16} + \frac{-9}{16}\right) \cdot \frac{-7}{6}}{\left(\frac{9}{8} - \frac{8}{-15}\right) \cdot \frac{-7}{3}} \quad \text{L: } \frac{15}{199} \quad \text{¶}$$

$$\text{i) } \frac{\left(\frac{15}{2} - \frac{7}{-12}\right) \cdot \frac{-13}{-6}}{\left(\frac{-11}{-15} + \frac{-4}{3}\right) \cdot \frac{2}{-7}} \quad \text{L: } \frac{44135}{1488} \quad \text{¶}$$

$$\text{j) } \frac{\left(\frac{-11}{5} - \frac{-5}{-3}\right) \cdot \frac{-15}{-14}}{\left(\frac{-7}{-2} + \frac{-7}{-4}\right) \cdot \frac{8}{7}} \quad \text{L: } \frac{2}{21} \quad \text{¶}$$