

Dividiere die Brüche und wandle in einen gemischten Bruch um, falls möglich:

① a) $\frac{4}{11} : \frac{4}{9} =$

b) $\frac{2}{5} : \frac{17}{30} =$

c) $\frac{2}{3} : \frac{20}{43} =$

d) $\frac{3}{38} : \frac{1}{19} =$

② a) $\frac{1}{22} : \frac{3}{10} =$

b) $\frac{1}{14} : \frac{5}{18} =$

c) $\frac{5}{28} : \frac{1}{8} =$

d) $\frac{8}{11} : \frac{3}{11} =$

③ a) $\frac{2}{15} : \frac{5}{9} =$

b) $\frac{15}{44} : \frac{1}{4} =$

c) $\frac{2}{3} : \frac{7}{33} =$

d) $\frac{1}{16} : \frac{5}{34} =$

④ a) $\frac{3}{40} : \frac{1}{30} =$

b) $\frac{16}{37} : \frac{2}{5} =$

c) $\frac{1}{22} : \frac{3}{26} =$

d) $\frac{2}{21} : \frac{4}{13} =$

⑤ a) $\frac{11}{20} : \frac{1}{8} =$

b) $\frac{3}{10} : \frac{3}{17} =$

c) $\frac{2}{43} : \frac{2}{15} =$

d) $\frac{6}{7} : \frac{13}{14} =$

Dividiere die Brüche und wandle in einen gemischten Bruch um, falls möglich:

- ① a) $\frac{4}{11} : \frac{4}{9} = \frac{4}{11} \cdot \frac{9}{4} = \frac{1 \cdot 9}{11 \cdot 1} = \frac{9}{11}$ b) $\frac{2}{5} : \frac{17}{30} = \frac{2}{5} \cdot \frac{30}{17} = \frac{2 \cdot 6}{1 \cdot 17} = \frac{12}{17}$
- c) $\frac{2}{3} : \frac{20}{43} = \frac{2}{3} \cdot \frac{43}{20} = \frac{1 \cdot 43}{3 \cdot 10} = 1 \frac{13}{30}$ d) $\frac{3}{38} : \frac{1}{19} = \frac{3}{38} \cdot \frac{19}{1} = \frac{3 \cdot 1}{2 \cdot 1} = 1 \frac{1}{2}$
- ② a) $\frac{1}{22} : \frac{3}{10} = \frac{1}{22} \cdot \frac{10}{3} = \frac{1 \cdot 5}{11 \cdot 3} = \frac{5}{33}$ b) $\frac{1}{14} : \frac{5}{18} = \frac{1}{14} \cdot \frac{18}{5} = \frac{1 \cdot 9}{7 \cdot 5} = \frac{9}{35}$
- c) $\frac{5}{28} : \frac{1}{8} = \frac{5}{28} \cdot \frac{8}{1} = \frac{5 \cdot 2}{7 \cdot 1} = 1 \frac{3}{7}$ d) $\frac{8}{11} : \frac{3}{11} = \frac{8}{11} \cdot \frac{11}{3} = \frac{8 \cdot 1}{1 \cdot 3} = 2 \frac{2}{3}$
- ③ a) $\frac{2}{15} : \frac{5}{9} = \frac{2}{15} \cdot \frac{9}{5} = \frac{2 \cdot 3}{5 \cdot 5} = \frac{6}{25}$ b) $\frac{15}{44} : \frac{1}{4} = \frac{15}{44} \cdot \frac{4}{1} = \frac{15 \cdot 1}{11 \cdot 1} = 1 \frac{4}{11}$
- c) $\frac{2}{3} : \frac{7}{33} = \frac{2}{3} \cdot \frac{33}{7} = \frac{2 \cdot 11}{1 \cdot 7} = 3 \frac{1}{7}$ d) $\frac{1}{16} : \frac{5}{34} = \frac{1}{16} \cdot \frac{34}{5} = \frac{1 \cdot 17}{8 \cdot 5} = \frac{17}{40}$
- ④ a) $\frac{3}{40} : \frac{1}{30} = \frac{3}{40} \cdot \frac{30}{1} = \frac{3 \cdot 3}{4 \cdot 1} = 2 \frac{1}{4}$ b) $\frac{16}{37} : \frac{2}{5} = \frac{16}{37} \cdot \frac{5}{2} = \frac{8 \cdot 5}{37 \cdot 1} = 1 \frac{3}{37}$
- c) $\frac{1}{22} : \frac{3}{26} = \frac{1}{22} \cdot \frac{26}{3} = \frac{1 \cdot 13}{11 \cdot 3} = \frac{13}{33}$ d) $\frac{2}{21} : \frac{4}{13} = \frac{2}{21} \cdot \frac{13}{4} = \frac{1 \cdot 13}{21 \cdot 2} = \frac{13}{42}$
- ⑤ a) $\frac{11}{20} : \frac{1}{8} = \frac{11}{20} \cdot \frac{8}{1} = \frac{11 \cdot 2}{5 \cdot 1} = 4 \frac{2}{5}$ b) $\frac{3}{10} : \frac{3}{17} = \frac{3}{10} \cdot \frac{17}{3} = \frac{1 \cdot 17}{10 \cdot 1} = 1 \frac{7}{10}$
- c) $\frac{2}{43} : \frac{2}{15} = \frac{2}{43} \cdot \frac{15}{2} = \frac{1 \cdot 15}{43 \cdot 1} = \frac{15}{43}$ d) $\frac{6}{7} : \frac{13}{14} = \frac{6}{7} \cdot \frac{14}{13} = \frac{6 \cdot 2}{1 \cdot 13} = \frac{12}{13}$