

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

① a) $\frac{4}{21} : \frac{4}{19} =$

b) $\frac{3}{4} : \frac{1}{16} =$

c) $\frac{1}{2} : \frac{7}{34} =$

d) $\frac{3}{10} : \frac{8}{15} =$

② a) $\frac{2}{7} : \frac{6}{37} =$

b) $\frac{2}{3} : \frac{4}{35} =$

c) $\frac{1}{6} : \frac{9}{32} =$

d) $\frac{1}{42} : \frac{1}{22} =$

③ a) $\frac{5}{16} : \frac{3}{20} =$

b) $\frac{20}{21} : \frac{2}{5} =$

c) $\frac{1}{40} : \frac{1}{34} =$

d) $\frac{11}{18} : \frac{5}{8} =$

④ a) $\frac{2}{17} : \frac{4}{43} =$

b) $\frac{6}{13} : \frac{2}{13} =$

c) $\frac{2}{15} : \frac{3}{5} =$

d) $\frac{10}{23} : \frac{4}{9} =$

⑤ a) $\frac{4}{27} : \frac{1}{21} =$

b) $\frac{4}{17} : \frac{3}{17} =$

c) $\frac{1}{4} : \frac{11}{18} =$

d) $\frac{1}{40} : \frac{1}{8} =$

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

- ① a) $\frac{4}{21} : \frac{4}{19} = \frac{4}{21} \cdot \frac{19}{4} = \frac{1 \cdot 19}{21 \cdot 1} = \frac{19}{21}$ b) $\frac{3}{4} : \frac{1}{16} = \frac{3}{4} \cdot \frac{16}{1} = \frac{3 \cdot 4}{1 \cdot 1} = 12$
- c) $\frac{1}{2} : \frac{7}{34} = \frac{1}{2} \cdot \frac{34}{7} = \frac{1 \cdot 17}{1 \cdot 7} = 2 \frac{3}{7}$ d) $\frac{3}{10} : \frac{8}{15} = \frac{3}{10} \cdot \frac{15}{8} = \frac{3 \cdot 3}{2 \cdot 8} = \frac{9}{16}$
- ② a) $\frac{2}{7} : \frac{6}{37} = \frac{2}{7} \cdot \frac{37}{6} = \frac{1 \cdot 37}{7 \cdot 3} = 1 \frac{16}{21}$ b) $\frac{2}{3} : \frac{4}{35} = \frac{2}{3} \cdot \frac{35}{4} = \frac{1 \cdot 35}{3 \cdot 2} = 5 \frac{5}{6}$
- c) $\frac{1}{6} : \frac{9}{32} = \frac{1}{6} \cdot \frac{32}{9} = \frac{1 \cdot 16}{3 \cdot 9} = \frac{16}{27}$ d) $\frac{1}{42} : \frac{1}{22} = \frac{1}{42} \cdot \frac{22}{1} = \frac{1 \cdot 11}{21 \cdot 1} = \frac{11}{21}$
- ③ a) $\frac{5}{16} : \frac{3}{20} = \frac{5}{16} \cdot \frac{20}{3} = \frac{5 \cdot 5}{4 \cdot 3} = 2 \frac{1}{12}$ b) $\frac{20}{21} : \frac{2}{5} = \frac{20}{21} \cdot \frac{5}{2} = \frac{10 \cdot 5}{21 \cdot 1} = 2 \frac{8}{21}$
- c) $\frac{1}{40} : \frac{1}{34} = \frac{1}{40} \cdot \frac{34}{1} = \frac{1 \cdot 17}{20 \cdot 1} = \frac{17}{20}$ d) $\frac{11}{18} : \frac{5}{8} = \frac{11}{18} \cdot \frac{8}{5} = \frac{11 \cdot 4}{9 \cdot 5} = \frac{44}{45}$
- ④ a) $\frac{2}{17} : \frac{4}{43} = \frac{2}{17} \cdot \frac{43}{4} = \frac{1 \cdot 43}{17 \cdot 2} = 1 \frac{9}{34}$ b) $\frac{6}{13} : \frac{2}{13} = \frac{6}{13} \cdot \frac{13}{2} = \frac{3 \cdot 1}{1 \cdot 1} = 3$
- c) $\frac{2}{15} : \frac{3}{5} = \frac{2}{15} \cdot \frac{5}{3} = \frac{2 \cdot 1}{3 \cdot 3} = \frac{2}{9}$ d) $\frac{10}{23} : \frac{4}{9} = \frac{10}{23} \cdot \frac{9}{4} = \frac{5 \cdot 9}{23 \cdot 2} = \frac{45}{46}$
- ⑤ a) $\frac{4}{27} : \frac{1}{21} = \frac{4}{27} \cdot \frac{21}{1} = \frac{4 \cdot 7}{9 \cdot 1} = 3 \frac{1}{9}$ b) $\frac{4}{17} : \frac{3}{17} = \frac{4}{17} \cdot \frac{17}{3} = \frac{4 \cdot 1}{1 \cdot 3} = 1 \frac{1}{3}$
- c) $\frac{1}{4} : \frac{11}{18} = \frac{1}{4} \cdot \frac{18}{11} = \frac{1 \cdot 9}{2 \cdot 11} = \frac{9}{22}$ d) $\frac{1}{40} : \frac{1}{8} = \frac{1}{40} \cdot \frac{8}{1} = \frac{1 \cdot 1}{5 \cdot 1} = \frac{1}{5}$