

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

① a) $\frac{2}{25} : \frac{2}{31} =$

b) $\frac{1}{14} : \frac{7}{12} =$

c) $\frac{5}{6} : \frac{10}{17} =$

d) $\frac{5}{24} : \frac{1}{10} =$

② a) $\frac{6}{19} : \frac{2}{5} =$

b) $\frac{3}{20} : \frac{5}{14} =$

c) $\frac{9}{23} : \frac{3}{8} =$

d) $\frac{4}{21} : \frac{1}{6} =$

③ a) $\frac{2}{11} : \frac{7}{33} =$

b) $\frac{4}{25} : \frac{4}{5} =$

c) $\frac{1}{2} : \frac{1}{4} =$

d) $\frac{5}{16} : \frac{3}{10} =$

④ a) $\frac{4}{43} : \frac{2}{13} =$

b) $\frac{2}{39} : \frac{1}{18} =$

c) $\frac{3}{4} : \frac{9}{20} =$

d) $\frac{5}{9} : \frac{5}{19} =$

⑤ a) $\frac{1}{5} : \frac{19}{40} =$

b) $\frac{1}{39} : \frac{1}{24} =$

c) $\frac{3}{11} : \frac{3}{17} =$

d) $\frac{2}{9} : \frac{4}{35} =$

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

- ① a) $\frac{2}{25} : \frac{2}{31} = \frac{2}{25} \cdot \frac{31}{2} = \frac{1 \cdot 31}{25 \cdot 1} = 1 \frac{6}{25}$ b) $\frac{1}{14} : \frac{7}{12} = \frac{1}{14} \cdot \frac{12}{7} = \frac{1 \cdot 6}{7 \cdot 7} = \frac{6}{49}$
- c) $\frac{5}{6} : \frac{10}{17} = \frac{5}{6} \cdot \frac{17}{10} = \frac{1 \cdot 17}{6 \cdot 2} = 1 \frac{5}{12}$ d) $\frac{5}{24} : \frac{1}{10} = \frac{5}{24} \cdot \frac{10}{1} = \frac{5 \cdot 5}{12 \cdot 1} = 2 \frac{1}{12}$
- ② a) $\frac{6}{19} : \frac{2}{5} = \frac{6}{19} \cdot \frac{5}{2} = \frac{3 \cdot 5}{19 \cdot 1} = \frac{15}{19}$ b) $\frac{3}{20} : \frac{5}{14} = \frac{3}{20} \cdot \frac{14}{5} = \frac{3 \cdot 7}{10 \cdot 5} = \frac{21}{50}$
- c) $\frac{9}{23} : \frac{3}{8} = \frac{9}{23} \cdot \frac{8}{3} = \frac{3 \cdot 8}{23 \cdot 1} = 1 \frac{1}{23}$ d) $\frac{4}{21} : \frac{1}{6} = \frac{4}{21} \cdot \frac{6}{1} = \frac{4 \cdot 2}{7 \cdot 1} = 1 \frac{1}{7}$
- ③ a) $\frac{2}{11} : \frac{7}{33} = \frac{2}{11} \cdot \frac{33}{7} = \frac{2 \cdot 3}{1 \cdot 7} = \frac{6}{7}$ b) $\frac{4}{25} : \frac{4}{5} = \frac{4}{25} \cdot \frac{5}{4} = \frac{1 \cdot 1}{5 \cdot 1} = \frac{1}{5}$
- c) $\frac{1}{2} : \frac{1}{4} = \frac{1}{2} \cdot \frac{4}{1} = \frac{1 \cdot 2}{1 \cdot 1} = 2$ d) $\frac{5}{16} : \frac{3}{10} = \frac{5}{16} \cdot \frac{10}{3} = \frac{5 \cdot 5}{8 \cdot 3} = 1 \frac{1}{24}$
- ④ a) $\frac{4}{43} : \frac{2}{13} = \frac{4}{43} \cdot \frac{13}{2} = \frac{2 \cdot 13}{43 \cdot 1} = \frac{26}{43}$ b) $\frac{2}{39} : \frac{1}{18} = \frac{2}{39} \cdot \frac{18}{1} = \frac{2 \cdot 6}{13 \cdot 1} = \frac{12}{13}$
- c) $\frac{3}{4} : \frac{9}{20} = \frac{3}{4} \cdot \frac{20}{9} = \frac{1 \cdot 5}{1 \cdot 3} = 1 \frac{2}{3}$ d) $\frac{5}{9} : \frac{5}{19} = \frac{5}{9} \cdot \frac{19}{5} = \frac{1 \cdot 19}{9 \cdot 1} = 2 \frac{1}{9}$
- ⑤ a) $\frac{1}{5} : \frac{19}{40} = \frac{1}{5} \cdot \frac{40}{19} = \frac{1 \cdot 8}{1 \cdot 19} = \frac{8}{19}$ b) $\frac{1}{39} : \frac{1}{24} = \frac{1}{39} \cdot \frac{24}{1} = \frac{1 \cdot 8}{13 \cdot 1} = \frac{8}{13}$
- c) $\frac{3}{11} : \frac{3}{17} = \frac{3}{11} \cdot \frac{17}{3} = \frac{1 \cdot 17}{11 \cdot 1} = 1 \frac{6}{11}$ d) $\frac{2}{9} : \frac{4}{35} = \frac{2}{9} \cdot \frac{35}{4} = \frac{1 \cdot 35}{9 \cdot 2} = 1 \frac{17}{18}$