

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

① a) $\frac{2}{9} : \frac{10}{31} =$

b) $\frac{1}{5} : \frac{1}{30} =$

c) $\frac{3}{4} : \frac{3}{14} =$

d) $\frac{2}{13} : \frac{6}{37} =$

② a) $\frac{7}{11} : \frac{8}{11} =$

b) $\frac{3}{40} : \frac{1}{22} =$

c) $\frac{4}{21} : \frac{2}{19} =$

d) $\frac{5}{8} : \frac{9}{10} =$

③ a) $\frac{29}{44} : \frac{1}{2} =$

b) $\frac{5}{7} : \frac{5}{9} =$

c) $\frac{3}{35} : \frac{2}{21} =$

d) $\frac{4}{5} : \frac{14}{19} =$

④ a) $\frac{11}{24} : \frac{1}{3} =$

b) $\frac{1}{10} : \frac{9}{34} =$

c) $\frac{1}{42} : \frac{2}{35} =$

d) $\frac{1}{9} : \frac{1}{12} =$

⑤ a) $\frac{2}{3} : \frac{8}{39} =$

b) $\frac{2}{13} : \frac{6}{25} =$

c) $\frac{1}{18} : \frac{5}{22} =$

d) $\frac{5}{6} : \frac{11}{20} =$

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

- ① a) $\frac{2}{9} : \frac{10}{31} = \frac{2}{9} \cdot \frac{31}{10} = \frac{1 \cdot 31}{9 \cdot 5} = \frac{31}{45}$ b) $\frac{1}{5} : \frac{1}{30} = \frac{1}{5} \cdot \frac{30}{1} = \frac{1 \cdot 6}{1 \cdot 1} = 6$
- c) $\frac{3}{4} : \frac{3}{14} = \frac{3}{4} \cdot \frac{14}{3} = \frac{1 \cdot 7}{2 \cdot 1} = 3 \frac{1}{2}$ d) $\frac{2}{13} : \frac{6}{37} = \frac{2}{13} \cdot \frac{37}{6} = \frac{1 \cdot 37}{13 \cdot 3} = \frac{37}{39}$
- ② a) $\frac{7}{11} : \frac{8}{11} = \frac{7}{11} \cdot \frac{11}{8} = \frac{7 \cdot 1}{1 \cdot 8} = \frac{7}{8}$ b) $\frac{3}{40} : \frac{1}{22} = \frac{3}{40} \cdot \frac{22}{1} = \frac{3 \cdot 11}{20 \cdot 1} = 1 \frac{13}{20}$
- c) $\frac{4}{21} : \frac{2}{19} = \frac{4}{21} \cdot \frac{19}{2} = \frac{2 \cdot 19}{21 \cdot 1} = 1 \frac{17}{21}$ d) $\frac{5}{8} : \frac{9}{10} = \frac{5}{8} \cdot \frac{10}{9} = \frac{5 \cdot 5}{4 \cdot 9} = \frac{25}{36}$
- ③ a) $\frac{29}{44} : \frac{1}{2} = \frac{29}{44} \cdot \frac{2}{1} = \frac{29 \cdot 1}{22 \cdot 1} = 1 \frac{7}{22}$ b) $\frac{5}{7} : \frac{5}{9} = \frac{5}{7} \cdot \frac{9}{5} = \frac{1 \cdot 9}{7 \cdot 1} = 1 \frac{2}{7}$
- c) $\frac{3}{35} : \frac{2}{21} = \frac{3}{35} \cdot \frac{21}{2} = \frac{3 \cdot 3}{5 \cdot 2} = \frac{9}{10}$ d) $\frac{4}{5} : \frac{14}{19} = \frac{4}{5} \cdot \frac{19}{14} = \frac{2 \cdot 19}{5 \cdot 7} = 1 \frac{3}{35}$
- ④ a) $\frac{11}{24} : \frac{1}{3} = \frac{11}{24} \cdot \frac{3}{1} = \frac{11 \cdot 1}{8 \cdot 1} = 1 \frac{3}{8}$ b) $\frac{1}{10} : \frac{9}{34} = \frac{1}{10} \cdot \frac{34}{9} = \frac{1 \cdot 17}{5 \cdot 9} = \frac{17}{45}$
- c) $\frac{1}{42} : \frac{2}{35} = \frac{1}{42} \cdot \frac{35}{2} = \frac{1 \cdot 5}{6 \cdot 2} = \frac{5}{12}$ d) $\frac{1}{9} : \frac{1}{12} = \frac{1}{9} \cdot \frac{12}{1} = \frac{1 \cdot 4}{3 \cdot 1} = 1 \frac{1}{3}$
- ⑤ a) $\frac{2}{3} : \frac{8}{39} = \frac{2}{3} \cdot \frac{39}{8} = \frac{1 \cdot 13}{1 \cdot 4} = 3 \frac{1}{4}$ b) $\frac{2}{13} : \frac{6}{25} = \frac{2}{13} \cdot \frac{25}{6} = \frac{1 \cdot 25}{13 \cdot 3} = \frac{25}{39}$
- c) $\frac{1}{18} : \frac{5}{22} = \frac{1}{18} \cdot \frac{22}{5} = \frac{1 \cdot 11}{9 \cdot 5} = \frac{11}{45}$ d) $\frac{5}{6} : \frac{11}{20} = \frac{5}{6} \cdot \frac{20}{11} = \frac{5 \cdot 10}{3 \cdot 11} = 1 \frac{17}{33}$