

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

① a) $\frac{7}{30} : \frac{3}{14} =$

b) $\frac{1}{42} : \frac{1}{39} =$

c) $\frac{12}{17} : \frac{2}{7} =$

d) $\frac{5}{6} : \frac{5}{8} =$

② a) $\frac{2}{21} : \frac{4}{33} =$

b) $\frac{13}{25} : \frac{2}{5} =$

c) $\frac{17}{40} : \frac{1}{4} =$

d) $\frac{1}{30} : \frac{3}{10} =$

③ a) $\frac{3}{8} : \frac{9}{14} =$

b) $\frac{2}{3} : \frac{2}{25} =$

c) $\frac{2}{31} : \frac{1}{31} =$

d) $\frac{1}{5} : \frac{11}{20} =$

④ a) $\frac{2}{7} : \frac{2}{41} =$

b) $\frac{11}{12} : \frac{5}{9} =$

c) $\frac{7}{25} : \frac{3}{10} =$

d) $\frac{2}{43} : \frac{2}{23} =$

⑤ a) $\frac{9}{16} : \frac{1}{8} =$

b) $\frac{3}{19} : \frac{3}{29} =$

c) $\frac{1}{3} : \frac{14}{39} =$

d) $\frac{6}{25} : \frac{4}{5} =$

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

- ① a) $\frac{7}{30} : \frac{3}{14} = \frac{7}{30} \cdot \frac{14}{3} = \frac{7 \cdot 7}{15 \cdot 3} = 1 \frac{4}{45}$ b) $\frac{1}{42} : \frac{1}{39} = \frac{1}{42} \cdot \frac{39}{1} = \frac{1 \cdot 13}{14 \cdot 1} = \frac{13}{14}$
- c) $\frac{12}{17} : \frac{2}{7} = \frac{12}{17} \cdot \frac{7}{2} = \frac{6 \cdot 7}{17 \cdot 1} = 2 \frac{8}{17}$ d) $\frac{5}{6} : \frac{5}{8} = \frac{5}{6} \cdot \frac{8}{5} = \frac{1 \cdot 4}{3 \cdot 1} = 1 \frac{1}{3}$
- ② a) $\frac{2}{21} : \frac{4}{33} = \frac{2}{21} \cdot \frac{33}{4} = \frac{1 \cdot 11}{7 \cdot 2} = \frac{11}{14}$ b) $\frac{13}{25} : \frac{2}{5} = \frac{13}{25} \cdot \frac{5}{2} = \frac{13 \cdot 1}{5 \cdot 2} = 1 \frac{3}{10}$
- c) $\frac{17}{40} : \frac{1}{4} = \frac{17}{40} \cdot \frac{4}{1} = \frac{17 \cdot 1}{10 \cdot 1} = 1 \frac{7}{10}$ d) $\frac{1}{30} : \frac{3}{10} = \frac{1}{30} \cdot \frac{10}{3} = \frac{1 \cdot 1}{3 \cdot 3} = \frac{1}{9}$
- ③ a) $\frac{3}{8} : \frac{9}{14} = \frac{3}{8} \cdot \frac{14}{9} = \frac{1 \cdot 7}{4 \cdot 3} = \frac{7}{12}$ b) $\frac{2}{3} : \frac{2}{25} = \frac{2}{3} \cdot \frac{25}{2} = \frac{1 \cdot 25}{3 \cdot 1} = 8 \frac{1}{3}$
- c) $\frac{2}{31} : \frac{1}{31} = \frac{2}{31} \cdot \frac{31}{1} = \frac{2 \cdot 1}{1 \cdot 1} = 2$ d) $\frac{1}{5} : \frac{11}{20} = \frac{1}{5} \cdot \frac{20}{11} = \frac{1 \cdot 4}{1 \cdot 11} = \frac{4}{11}$
- ④ a) $\frac{2}{7} : \frac{2}{41} = \frac{2}{7} \cdot \frac{41}{2} = \frac{1 \cdot 41}{7 \cdot 1} = 5 \frac{6}{7}$ b) $\frac{11}{12} : \frac{5}{9} = \frac{11}{12} \cdot \frac{9}{5} = \frac{11 \cdot 3}{4 \cdot 5} = 1 \frac{13}{20}$
- c) $\frac{7}{25} : \frac{3}{10} = \frac{7}{25} \cdot \frac{10}{3} = \frac{7 \cdot 2}{5 \cdot 3} = \frac{14}{15}$ d) $\frac{2}{43} : \frac{2}{23} = \frac{2}{43} \cdot \frac{23}{2} = \frac{1 \cdot 23}{43 \cdot 1} = \frac{23}{43}$
- ⑤ a) $\frac{9}{16} : \frac{1}{8} = \frac{9}{16} \cdot \frac{8}{1} = \frac{9 \cdot 1}{2 \cdot 1} = 4 \frac{1}{2}$ b) $\frac{3}{19} : \frac{3}{29} = \frac{3}{19} \cdot \frac{29}{3} = \frac{1 \cdot 29}{19 \cdot 1} = 1 \frac{10}{19}$
- c) $\frac{1}{3} : \frac{14}{39} = \frac{1}{3} \cdot \frac{39}{14} = \frac{1 \cdot 13}{1 \cdot 14} = \frac{13}{14}$ d) $\frac{6}{25} : \frac{4}{5} = \frac{6}{25} \cdot \frac{5}{4} = \frac{3 \cdot 1}{5 \cdot 2} = \frac{3}{10}$