

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

① a) $\frac{1}{10} : \frac{7}{25} =$

b) $\frac{5}{8} : \frac{9}{14} =$

c) $\frac{3}{13} : \frac{3}{23} =$

d) $\frac{5}{12} : \frac{1}{20} =$

② a) $\frac{6}{25} : \frac{4}{7} =$

b) $\frac{8}{11} : \frac{8}{9} =$

c) $\frac{3}{4} : \frac{11}{30} =$

d) $\frac{14}{17} : \frac{2}{3} =$

③ a) $\frac{1}{18} : \frac{4}{45} =$

b) $\frac{1}{22} : \frac{3}{11} =$

c) $\frac{2}{23} : \frac{2}{25} =$

d) $\frac{21}{40} : \frac{1}{4} =$

④ a) $\frac{1}{13} : \frac{4}{39} =$

b) $\frac{9}{31} : \frac{3}{8} =$

c) $\frac{3}{34} : \frac{1}{12} =$

d) $\frac{4}{5} : \frac{10}{23} =$

⑤ a) $\frac{7}{22} : \frac{3}{4} =$

b) $\frac{5}{36} : \frac{1}{8} =$

c) $\frac{10}{11} : \frac{5}{9} =$

d) $\frac{4}{33} : \frac{2}{3} =$

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

- ① a) $\frac{1}{10} : \frac{7}{25} = \frac{1}{10} \cdot \frac{25}{7} = \frac{1 \cdot 5}{2 \cdot 7} = \frac{5}{14}$ b) $\frac{5}{8} : \frac{9}{14} = \frac{5}{8} \cdot \frac{14}{9} = \frac{5 \cdot 7}{4 \cdot 9} = \frac{35}{36}$
- c) $\frac{3}{13} : \frac{3}{23} = \frac{3}{13} \cdot \frac{23}{3} = \frac{1 \cdot 23}{13 \cdot 1} = 1 \frac{10}{13}$ d) $\frac{5}{12} : \frac{1}{20} = \frac{5}{12} \cdot \frac{20}{1} = \frac{5 \cdot 5}{3 \cdot 1} = 8 \frac{1}{3}$
- ② a) $\frac{6}{25} : \frac{4}{7} = \frac{6}{25} \cdot \frac{7}{4} = \frac{3 \cdot 7}{25 \cdot 2} = \frac{21}{50}$ b) $\frac{8}{11} : \frac{8}{9} = \frac{8}{11} \cdot \frac{9}{8} = \frac{1 \cdot 9}{11 \cdot 1} = \frac{9}{11}$
- c) $\frac{3}{4} : \frac{11}{30} = \frac{3}{4} \cdot \frac{30}{11} = \frac{3 \cdot 15}{2 \cdot 11} = 2 \frac{1}{22}$ d) $\frac{14}{17} : \frac{2}{3} = \frac{14}{17} \cdot \frac{3}{2} = \frac{7 \cdot 3}{17 \cdot 1} = 1 \frac{4}{17}$
- ③ a) $\frac{1}{18} : \frac{4}{45} = \frac{1}{18} \cdot \frac{45}{4} = \frac{1 \cdot 5}{2 \cdot 4} = \frac{5}{8}$ b) $\frac{1}{22} : \frac{3}{11} = \frac{1}{22} \cdot \frac{11}{3} = \frac{1 \cdot 1}{2 \cdot 3} = \frac{1}{6}$
- c) $\frac{2}{23} : \frac{2}{25} = \frac{2}{23} \cdot \frac{25}{2} = \frac{1 \cdot 25}{23 \cdot 1} = 1 \frac{2}{23}$ d) $\frac{21}{40} : \frac{1}{4} = \frac{21}{40} \cdot \frac{4}{1} = \frac{21 \cdot 1}{10 \cdot 1} = 2 \frac{1}{10}$
- ④ a) $\frac{1}{13} : \frac{4}{39} = \frac{1}{13} \cdot \frac{39}{4} = \frac{1 \cdot 3}{1 \cdot 4} = \frac{3}{4}$ b) $\frac{9}{31} : \frac{3}{8} = \frac{9}{31} \cdot \frac{8}{3} = \frac{3 \cdot 8}{31 \cdot 1} = \frac{24}{31}$
- c) $\frac{3}{34} : \frac{1}{12} = \frac{3}{34} \cdot \frac{12}{1} = \frac{3 \cdot 6}{17 \cdot 1} = 1 \frac{1}{17}$ d) $\frac{4}{5} : \frac{10}{23} = \frac{4}{5} \cdot \frac{23}{10} = \frac{2 \cdot 23}{5 \cdot 5} = 1 \frac{21}{25}$
- ⑤ a) $\frac{7}{22} : \frac{3}{4} = \frac{7}{22} \cdot \frac{4}{3} = \frac{7 \cdot 2}{11 \cdot 3} = \frac{14}{33}$ b) $\frac{5}{36} : \frac{1}{8} = \frac{5}{36} \cdot \frac{8}{1} = \frac{5 \cdot 2}{9 \cdot 1} = 1 \frac{1}{9}$
- c) $\frac{10}{11} : \frac{5}{9} = \frac{10}{11} \cdot \frac{9}{5} = \frac{2 \cdot 9}{11 \cdot 1} = 1 \frac{7}{11}$ d) $\frac{4}{33} : \frac{2}{3} = \frac{4}{33} \cdot \frac{3}{2} = \frac{2 \cdot 1}{11 \cdot 1} = \frac{2}{11}$