

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

① a) $\frac{1}{26} : \frac{3}{38} =$

b) $\frac{2}{33} : \frac{2}{15} =$

c) $\frac{3}{8} : \frac{7}{20} =$

d) $\frac{3}{32} : \frac{3}{32} =$

② a) $\frac{2}{23} : \frac{4}{29} =$

b) $\frac{7}{15} : \frac{5}{12} =$

c) $\frac{12}{25} : \frac{2}{5} =$

d) $\frac{5}{7} : \frac{13}{14} =$

③ a) $\frac{5}{19} : \frac{5}{13} =$

b) $\frac{5}{6} : \frac{2}{15} =$

c) $\frac{3}{4} : \frac{6}{31} =$

d) $\frac{1}{10} : \frac{7}{16} =$

④ a) $\frac{6}{11} : \frac{2}{3} =$

b) $\frac{5}{34} : \frac{1}{14} =$

c) $\frac{2}{5} : \frac{3}{20} =$

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

⑤ a) $\frac{1}{24} : \frac{4}{27} =$

b) $\frac{4}{7} : \frac{3}{7} =$

c) $\frac{1}{4} : \frac{5}{42} =$

d) $\frac{1}{45} : \frac{2}{35} =$

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

- ① a) $\frac{1}{26} : \frac{3}{38} = \frac{1}{26} \cdot \frac{38}{3} = \frac{1 \cdot 19}{13 \cdot 3} = \frac{19}{39}$ b) $\frac{2}{33} : \frac{2}{15} = \frac{2}{33} \cdot \frac{15}{2} = \frac{1 \cdot 5}{11 \cdot 1} = \frac{5}{11}$
- c) $\frac{3}{8} : \frac{7}{20} = \frac{3}{8} \cdot \frac{20}{7} = \frac{3 \cdot 5}{2 \cdot 7} = 1 \frac{1}{14}$ d) $\frac{3}{32} : \frac{3}{32} = \frac{3}{32} \cdot \frac{32}{3} = \frac{1 \cdot 1}{1 \cdot 1} = 1$
- ② a) $\frac{2}{23} : \frac{4}{29} = \frac{2}{23} \cdot \frac{29}{4} = \frac{1 \cdot 29}{23 \cdot 2} = \frac{29}{46}$ b) $\frac{7}{15} : \frac{5}{12} = \frac{7}{15} \cdot \frac{12}{5} = \frac{7 \cdot 4}{5 \cdot 5} = 1 \frac{3}{25}$
- c) $\frac{12}{25} : \frac{2}{5} = \frac{12}{25} \cdot \frac{5}{2} = \frac{6 \cdot 1}{5 \cdot 1} = 1 \frac{1}{5}$ d) $\frac{5}{7} : \frac{13}{14} = \frac{5}{7} \cdot \frac{14}{13} = \frac{5 \cdot 2}{1 \cdot 13} = \frac{10}{13}$
- ③ a) $\frac{5}{19} : \frac{5}{13} = \frac{5}{19} \cdot \frac{13}{5} = \frac{1 \cdot 13}{19 \cdot 1} = \frac{13}{19}$ b) $\frac{5}{6} : \frac{2}{15} = \frac{5}{6} \cdot \frac{15}{2} = \frac{5 \cdot 5}{2 \cdot 2} = 6 \frac{1}{4}$
- c) $\frac{3}{4} : \frac{6}{31} = \frac{3}{4} \cdot \frac{31}{6} = \frac{1 \cdot 31}{4 \cdot 2} = 3 \frac{7}{8}$ d) $\frac{1}{10} : \frac{7}{16} = \frac{1}{10} \cdot \frac{16}{7} = \frac{1 \cdot 8}{5 \cdot 7} = \frac{8}{35}$
- ④ a) $\frac{6}{11} : \frac{2}{3} = \frac{6}{11} \cdot \frac{3}{2} = \frac{3 \cdot 3}{11 \cdot 1} = \frac{9}{11}$ b) $\frac{5}{34} : \frac{1}{14} = \frac{5}{34} \cdot \frac{14}{1} = \frac{5 \cdot 7}{17 \cdot 1} = 2 \frac{1}{17}$
- c) $\frac{2}{5} : \frac{3}{20} = \frac{2}{5} \cdot \frac{20}{3} = \frac{2 \cdot 4}{1 \cdot 3} = 2 \frac{2}{3}$ d) $\frac{1}{8} : \frac{5}{36} = \frac{1}{8} \cdot \frac{36}{5} = \frac{1 \cdot 9}{2 \cdot 5} = \frac{9}{10}$
- ⑤ a) $\frac{1}{24} : \frac{4}{27} = \frac{1}{24} \cdot \frac{27}{4} = \frac{1 \cdot 9}{8 \cdot 4} = \frac{9}{32}$ b) $\frac{4}{7} : \frac{3}{7} = \frac{4}{7} \cdot \frac{7}{3} = \frac{4 \cdot 1}{1 \cdot 3} = 1 \frac{1}{3}$
- c) $\frac{1}{4} : \frac{5}{42} = \frac{1}{4} \cdot \frac{42}{5} = \frac{1 \cdot 21}{2 \cdot 5} = 2 \frac{1}{10}$ d) $\frac{1}{45} : \frac{2}{35} = \frac{1}{45} \cdot \frac{35}{2} = \frac{1 \cdot 7}{9 \cdot 2} = \frac{7}{18}$