

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

① a) $\frac{8}{9} : \frac{4}{5} =$

b) $\frac{1}{15} : \frac{3}{10} =$

c) $\frac{1}{21} : \frac{1}{45} =$

d) $\frac{1}{3} : \frac{7}{27} =$

② a) $\frac{1}{4} : \frac{19}{36} =$

b) $\frac{3}{5} : \frac{1}{10} =$

c) $\frac{7}{12} : \frac{5}{9} =$

d) $\frac{4}{25} : \frac{2}{3} =$

③ a) $\frac{4}{19} : \frac{4}{15} =$

b) $\frac{2}{11} : \frac{6}{37} =$

c) $\frac{1}{2} : \frac{13}{30} =$

d) $\frac{4}{33} : \frac{2}{7} =$

④ a) $\frac{1}{14} : \frac{5}{22} =$

b) $\frac{1}{18} : \frac{1}{27} =$

c) $\frac{2}{21} : \frac{2}{45} =$

d) $\frac{1}{6} : \frac{5}{26} =$

⑤ a) $\frac{3}{20} : \frac{1}{25} =$

b) $\frac{4}{9} : \frac{8}{19} =$

c) $\frac{1}{15} : \frac{5}{21} =$

d) $\frac{1}{22} : \frac{1}{36} =$

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

- ① a) $\frac{8}{9} : \frac{4}{5} = \frac{8}{9} \cdot \frac{5}{4} = \frac{2 \cdot 5}{9 \cdot 1} = 1 \frac{1}{9}$ b) $\frac{1}{15} : \frac{3}{10} = \frac{1}{15} \cdot \frac{10}{3} = \frac{1 \cdot 2}{3 \cdot 3} = \frac{2}{9}$
- c) $\frac{1}{21} : \frac{1}{45} = \frac{1}{21} \cdot \frac{45}{1} = \frac{1 \cdot 15}{7 \cdot 1} = 2 \frac{1}{7}$ d) $\frac{1}{3} : \frac{7}{27} = \frac{1}{3} \cdot \frac{27}{7} = \frac{1 \cdot 9}{1 \cdot 7} = 1 \frac{2}{7}$
- ② a) $\frac{1}{4} : \frac{19}{36} = \frac{1}{4} \cdot \frac{36}{19} = \frac{1 \cdot 9}{1 \cdot 19} = \frac{9}{19}$ b) $\frac{3}{5} : \frac{1}{10} = \frac{3}{5} \cdot \frac{10}{1} = \frac{3 \cdot 2}{1 \cdot 1} = 6$
- c) $\frac{7}{12} : \frac{5}{9} = \frac{7}{12} \cdot \frac{9}{5} = \frac{7 \cdot 3}{4 \cdot 5} = 1 \frac{1}{20}$ d) $\frac{4}{25} : \frac{2}{3} = \frac{4}{25} \cdot \frac{3}{2} = \frac{2 \cdot 3}{25 \cdot 1} = \frac{6}{25}$
- ③ a) $\frac{4}{19} : \frac{4}{15} = \frac{4}{19} \cdot \frac{15}{4} = \frac{1 \cdot 15}{19 \cdot 1} = \frac{15}{19}$ b) $\frac{2}{11} : \frac{6}{37} = \frac{2}{11} \cdot \frac{37}{6} = \frac{1 \cdot 37}{11 \cdot 3} = 1 \frac{4}{33}$
- c) $\frac{1}{2} : \frac{13}{30} = \frac{1}{2} \cdot \frac{30}{13} = \frac{1 \cdot 15}{1 \cdot 13} = 1 \frac{2}{13}$ d) $\frac{4}{33} : \frac{2}{7} = \frac{4}{33} \cdot \frac{7}{2} = \frac{2 \cdot 7}{33 \cdot 1} = \frac{14}{33}$
- ④ a) $\frac{1}{14} : \frac{5}{22} = \frac{1}{14} \cdot \frac{22}{5} = \frac{1 \cdot 11}{7 \cdot 5} = \frac{11}{35}$ b) $\frac{1}{18} : \frac{1}{27} = \frac{1}{18} \cdot \frac{27}{1} = \frac{1 \cdot 3}{2 \cdot 1} = 1 \frac{1}{2}$
- c) $\frac{2}{21} : \frac{2}{45} = \frac{2}{21} \cdot \frac{45}{2} = \frac{1 \cdot 15}{7 \cdot 1} = 2 \frac{1}{7}$ d) $\frac{1}{6} : \frac{5}{26} = \frac{1}{6} \cdot \frac{26}{5} = \frac{1 \cdot 13}{3 \cdot 5} = \frac{13}{15}$
- ⑤ a) $\frac{3}{20} : \frac{1}{25} = \frac{3}{20} \cdot \frac{25}{1} = \frac{3 \cdot 5}{4 \cdot 1} = 3 \frac{3}{4}$ b) $\frac{4}{9} : \frac{8}{19} = \frac{4}{9} \cdot \frac{19}{8} = \frac{1 \cdot 19}{9 \cdot 2} = 1 \frac{1}{18}$
- c) $\frac{1}{15} : \frac{5}{21} = \frac{1}{15} \cdot \frac{21}{5} = \frac{1 \cdot 7}{5 \cdot 5} = \frac{7}{25}$ d) $\frac{1}{22} : \frac{1}{36} = \frac{1}{22} \cdot \frac{36}{1} = \frac{1 \cdot 18}{11 \cdot 1} = 1 \frac{7}{11}$