

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

① a) $\frac{2}{21} : \frac{2}{17} =$

b) $\frac{1}{22} : \frac{4}{11} =$

c) $\frac{9}{38} : \frac{1}{6} =$

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

② a) $\frac{1}{9} : \frac{7}{9} =$

b) $\frac{1}{2} : \frac{1}{36} =$

c) $\frac{3}{11} : \frac{6}{31} =$

d) $\frac{1}{3} : \frac{20}{27} =$

③ a) $\frac{5}{19} : \frac{2}{19} =$

b) $\frac{2}{15} : \frac{4}{37} =$

c) $\frac{1}{4} : \frac{9}{22} =$

d) $\frac{1}{20} : \frac{5}{26} =$

④ a) $\frac{3}{13} : \frac{3}{14} =$

b) $\frac{20}{23} : \frac{2}{5} =$

c) $\frac{2}{9} : \frac{10}{21} =$

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

⑤ a) $\frac{3}{4} : \frac{9}{29} =$

b) $\frac{3}{5} : \frac{6}{11} =$

c) $\frac{4}{25} : \frac{4}{23} =$

d) $\frac{1}{36} : \frac{2}{15} =$

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

- ① a) $\frac{2}{21} : \frac{2}{17} = \frac{2}{21} \cdot \frac{17}{2} = \frac{1 \cdot 17}{21 \cdot 1} = \frac{17}{21}$ b) $\frac{1}{22} : \frac{4}{11} = \frac{1}{22} \cdot \frac{11}{4} = \frac{1 \cdot 1}{2 \cdot 4} = \frac{1}{8}$
- c) $\frac{9}{38} : \frac{1}{6} = \frac{9}{38} \cdot \frac{6}{1} = \frac{9 \cdot 3}{19 \cdot 1} = 1 \frac{8}{19}$ d) $\frac{9}{14} : \frac{5}{8} = \frac{9}{14} \cdot \frac{8}{5} = \frac{9 \cdot 4}{7 \cdot 5} = 1 \frac{1}{35}$
- ② a) $\frac{1}{9} : \frac{7}{9} = \frac{1}{9} \cdot \frac{9}{7} = \frac{1 \cdot 1}{1 \cdot 7} = \frac{1}{7}$ b) $\frac{1}{2} : \frac{1}{36} = \frac{1}{2} \cdot \frac{36}{1} = \frac{1 \cdot 18}{1 \cdot 1} = 18$
- c) $\frac{3}{11} : \frac{6}{31} = \frac{3}{11} \cdot \frac{31}{6} = \frac{1 \cdot 31}{11 \cdot 2} = 1 \frac{9}{22}$ d) $\frac{1}{3} : \frac{20}{27} = \frac{1}{3} \cdot \frac{27}{20} = \frac{1 \cdot 9}{1 \cdot 20} = \frac{9}{20}$
- ③ a) $\frac{5}{19} : \frac{2}{19} = \frac{5}{19} \cdot \frac{19}{2} = \frac{5 \cdot 1}{1 \cdot 2} = 2 \frac{1}{2}$ b) $\frac{2}{15} : \frac{4}{37} = \frac{2}{15} \cdot \frac{37}{4} = \frac{1 \cdot 37}{15 \cdot 2} = 1 \frac{7}{30}$
- c) $\frac{1}{4} : \frac{9}{22} = \frac{1}{4} \cdot \frac{22}{9} = \frac{1 \cdot 11}{2 \cdot 9} = \frac{11}{18}$ d) $\frac{1}{20} : \frac{5}{26} = \frac{1}{20} \cdot \frac{26}{5} = \frac{1 \cdot 13}{10 \cdot 5} = \frac{13}{50}$
- ④ a) $\frac{3}{13} : \frac{3}{14} = \frac{3}{13} \cdot \frac{14}{3} = \frac{1 \cdot 14}{13 \cdot 1} = 1 \frac{1}{13}$ b) $\frac{20}{23} : \frac{2}{5} = \frac{20}{23} \cdot \frac{5}{2} = \frac{10 \cdot 5}{23 \cdot 1} = 2 \frac{4}{23}$
- c) $\frac{2}{9} : \frac{10}{21} = \frac{2}{9} \cdot \frac{21}{10} = \frac{1 \cdot 7}{3 \cdot 5} = \frac{7}{15}$ d) $\frac{1}{30} : \frac{1}{3} = \frac{1}{30} \cdot \frac{3}{1} = \frac{1 \cdot 1}{10 \cdot 1} = \frac{1}{10}$
- ⑤ a) $\frac{3}{4} : \frac{9}{29} = \frac{3}{4} \cdot \frac{29}{9} = \frac{1 \cdot 29}{4 \cdot 3} = 2 \frac{5}{12}$ b) $\frac{3}{5} : \frac{6}{11} = \frac{3}{5} \cdot \frac{11}{6} = \frac{1 \cdot 11}{5 \cdot 2} = 1 \frac{1}{10}$
- c) $\frac{4}{25} : \frac{4}{23} = \frac{4}{25} \cdot \frac{23}{4} = \frac{1 \cdot 23}{25 \cdot 1} = \frac{23}{25}$ d) $\frac{1}{36} : \frac{2}{15} = \frac{1}{36} \cdot \frac{15}{2} = \frac{1 \cdot 5}{12 \cdot 2} = \frac{5}{24}$