

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

① a) $\frac{5}{7} : \frac{5}{19} =$

b) $\frac{3}{4} : \frac{11}{12} =$

c) $\frac{3}{14} : \frac{7}{18} =$

d) $\frac{4}{33} : \frac{1}{11} =$

② a) $\frac{3}{5} : \frac{9}{32} =$

b) $\frac{3}{31} : \frac{3}{23} =$

c) $\frac{1}{18} : \frac{5}{22} =$

d) $\frac{6}{7} : \frac{6}{11} =$

③ a) $\frac{1}{32} : \frac{1}{40} =$

b) $\frac{1}{12} : \frac{5}{27} =$

c) $\frac{2}{15} : \frac{4}{45} =$

d) $\frac{2}{33} : \frac{1}{42} =$

④ a) $\frac{1}{24} : \frac{3}{38} =$

b) $\frac{8}{9} : \frac{10}{11} =$

c) $\frac{5}{19} : \frac{4}{19} =$

d) $\frac{2}{3} : \frac{20}{33} =$

⑤ a) $\frac{6}{29} : \frac{3}{13} =$

b) $\frac{2}{7} : \frac{2}{35} =$

c) $\frac{7}{10} : \frac{7}{11} =$

d) $\frac{2}{33} : \frac{1}{15} =$

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

- ① a) $\frac{5}{7} : \frac{5}{19} = \frac{5}{7} \cdot \frac{19}{5} = \frac{1 \cdot 19}{7 \cdot 1} = 2 \frac{5}{7}$ b) $\frac{3}{4} : \frac{11}{12} = \frac{3}{4} \cdot \frac{12}{11} = \frac{3 \cdot 3}{1 \cdot 11} = \frac{9}{11}$
- c) $\frac{3}{14} : \frac{7}{18} = \frac{3}{14} \cdot \frac{18}{7} = \frac{3 \cdot 9}{7 \cdot 7} = \frac{27}{49}$ d) $\frac{4}{33} : \frac{1}{11} = \frac{4}{33} \cdot \frac{11}{1} = \frac{4 \cdot 1}{3 \cdot 1} = 1 \frac{1}{3}$
- ② a) $\frac{3}{5} : \frac{9}{32} = \frac{3}{5} \cdot \frac{32}{9} = \frac{1 \cdot 32}{5 \cdot 3} = 2 \frac{2}{15}$ b) $\frac{3}{31} : \frac{3}{23} = \frac{3}{31} \cdot \frac{23}{3} = \frac{1 \cdot 23}{31 \cdot 1} = \frac{23}{31}$
- c) $\frac{1}{18} : \frac{5}{22} = \frac{1}{18} \cdot \frac{22}{5} = \frac{1 \cdot 11}{9 \cdot 5} = \frac{11}{45}$ d) $\frac{6}{7} : \frac{6}{11} = \frac{6}{7} \cdot \frac{11}{6} = \frac{1 \cdot 11}{7 \cdot 1} = 1 \frac{4}{7}$
- ③ a) $\frac{1}{32} : \frac{1}{40} = \frac{1}{32} \cdot \frac{40}{1} = \frac{1 \cdot 5}{4 \cdot 1} = 1 \frac{1}{4}$ b) $\frac{1}{12} : \frac{5}{27} = \frac{1}{12} \cdot \frac{27}{5} = \frac{1 \cdot 9}{4 \cdot 5} = \frac{9}{20}$
- c) $\frac{2}{15} : \frac{4}{45} = \frac{2}{15} \cdot \frac{45}{4} = \frac{1 \cdot 3}{1 \cdot 2} = 1 \frac{1}{2}$ d) $\frac{2}{33} : \frac{1}{42} = \frac{2}{33} \cdot \frac{42}{1} = \frac{2 \cdot 14}{11 \cdot 1} = 2 \frac{6}{11}$
- ④ a) $\frac{1}{24} : \frac{3}{38} = \frac{1}{24} \cdot \frac{38}{3} = \frac{1 \cdot 19}{12 \cdot 3} = \frac{19}{36}$ b) $\frac{8}{9} : \frac{10}{11} = \frac{8}{9} \cdot \frac{11}{10} = \frac{4 \cdot 11}{9 \cdot 5} = \frac{44}{45}$
- c) $\frac{5}{19} : \frac{4}{19} = \frac{5}{19} \cdot \frac{19}{4} = \frac{5 \cdot 1}{1 \cdot 4} = 1 \frac{1}{4}$ d) $\frac{2}{3} : \frac{20}{33} = \frac{2}{3} \cdot \frac{33}{20} = \frac{1 \cdot 11}{1 \cdot 10} = 1 \frac{1}{10}$
- ⑤ a) $\frac{6}{29} : \frac{3}{13} = \frac{6}{29} \cdot \frac{13}{3} = \frac{2 \cdot 13}{29 \cdot 1} = \frac{26}{29}$ b) $\frac{2}{7} : \frac{2}{35} = \frac{2}{7} \cdot \frac{35}{2} = \frac{1 \cdot 5}{1 \cdot 1} = 5$
- c) $\frac{7}{10} : \frac{7}{11} = \frac{7}{10} \cdot \frac{11}{7} = \frac{1 \cdot 11}{10 \cdot 1} = 1 \frac{1}{10}$ d) $\frac{2}{33} : \frac{1}{15} = \frac{2}{33} \cdot \frac{15}{1} = \frac{2 \cdot 5}{11 \cdot 1} = \frac{10}{11}$