

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

① a) $\frac{1}{28} : \frac{1}{12} =$

b) $\frac{2}{23} : \frac{4}{13} =$

c) $\frac{2}{3} : \frac{20}{31} =$

d) $\frac{6}{7} : \frac{3}{4} =$

② a) $\frac{1}{2} : \frac{23}{38} =$

b) $\frac{1}{42} : \frac{1}{33} =$

c) $\frac{4}{27} : \frac{2}{15} =$

d) $\frac{5}{14} : \frac{5}{19} =$

③ a) $\frac{3}{26} : \frac{3}{13} =$

b) $\frac{2}{33} : \frac{1}{9} =$

c) $\frac{5}{8} : \frac{5}{11} =$

d) $\frac{11}{15} : \frac{2}{5} =$

④ a) $\frac{1}{2} : \frac{23}{40} =$

b) $\frac{1}{21} : \frac{3}{35} =$

c) $\frac{1}{3} : \frac{5}{36} =$

d) $\frac{5}{42} : \frac{1}{18} =$

⑤ a) $\frac{12}{29} : \frac{3}{5} =$

b) $\frac{6}{7} : \frac{4}{7} =$

c) $\frac{3}{40} : \frac{1}{26} =$

d) $\frac{1}{10} : \frac{9}{25} =$

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

- ① a) $\frac{1}{28} : \frac{1}{12} = \frac{1}{28} \cdot \frac{12}{1} = \frac{1 \cdot 3}{7 \cdot 1} = \frac{3}{7}$ b) $\frac{2}{23} : \frac{4}{13} = \frac{2}{23} \cdot \frac{13}{4} = \frac{1 \cdot 13}{23 \cdot 2} = \frac{13}{46}$
- c) $\frac{2}{3} : \frac{20}{31} = \frac{2}{3} \cdot \frac{31}{20} = \frac{1 \cdot 31}{3 \cdot 10} = 1 \frac{1}{30}$ d) $\frac{6}{7} : \frac{3}{4} = \frac{6}{7} \cdot \frac{4}{3} = \frac{2 \cdot 4}{7 \cdot 1} = 1 \frac{1}{7}$
- ② a) $\frac{1}{2} : \frac{23}{38} = \frac{1}{2} \cdot \frac{38}{23} = \frac{1 \cdot 19}{1 \cdot 23} = \frac{19}{23}$ b) $\frac{1}{42} : \frac{1}{33} = \frac{1}{42} \cdot \frac{33}{1} = \frac{1 \cdot 11}{14 \cdot 1} = \frac{11}{14}$
- c) $\frac{4}{27} : \frac{2}{15} = \frac{4}{27} \cdot \frac{15}{2} = \frac{2 \cdot 5}{9 \cdot 1} = 1 \frac{1}{9}$ d) $\frac{5}{14} : \frac{5}{19} = \frac{5}{14} \cdot \frac{19}{5} = \frac{1 \cdot 19}{14 \cdot 1} = 1 \frac{5}{14}$
- ③ a) $\frac{3}{26} : \frac{3}{13} = \frac{3}{26} \cdot \frac{13}{3} = \frac{1 \cdot 1}{2 \cdot 1} = \frac{1}{2}$ b) $\frac{2}{33} : \frac{1}{9} = \frac{2}{33} \cdot \frac{9}{1} = \frac{2 \cdot 3}{11 \cdot 1} = \frac{6}{11}$
- c) $\frac{5}{8} : \frac{5}{11} = \frac{5}{8} \cdot \frac{11}{5} = \frac{1 \cdot 11}{8 \cdot 1} = 1 \frac{3}{8}$ d) $\frac{11}{15} : \frac{2}{5} = \frac{11}{15} \cdot \frac{5}{2} = \frac{11 \cdot 1}{3 \cdot 2} = 1 \frac{5}{6}$
- ④ a) $\frac{1}{2} : \frac{23}{40} = \frac{1}{2} \cdot \frac{40}{23} = \frac{1 \cdot 20}{1 \cdot 23} = \frac{20}{23}$ b) $\frac{1}{21} : \frac{3}{35} = \frac{1}{21} \cdot \frac{35}{3} = \frac{1 \cdot 5}{3 \cdot 3} = \frac{5}{9}$
- c) $\frac{1}{3} : \frac{5}{36} = \frac{1}{3} \cdot \frac{36}{5} = \frac{1 \cdot 12}{1 \cdot 5} = 2 \frac{2}{5}$ d) $\frac{5}{42} : \frac{1}{18} = \frac{5}{42} \cdot \frac{18}{1} = \frac{5 \cdot 3}{7 \cdot 1} = 2 \frac{1}{7}$
- ⑤ a) $\frac{12}{29} : \frac{3}{5} = \frac{12}{29} \cdot \frac{5}{3} = \frac{4 \cdot 5}{29 \cdot 1} = \frac{20}{29}$ b) $\frac{6}{7} : \frac{4}{7} = \frac{6}{7} \cdot \frac{7}{4} = \frac{3 \cdot 1}{1 \cdot 2} = 1 \frac{1}{2}$
- c) $\frac{3}{40} : \frac{1}{26} = \frac{3}{40} \cdot \frac{26}{1} = \frac{3 \cdot 13}{20 \cdot 1} = 1 \frac{19}{20}$ d) $\frac{1}{10} : \frac{9}{25} = \frac{1}{10} \cdot \frac{25}{9} = \frac{1 \cdot 5}{2 \cdot 9} = \frac{5}{18}$