

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

① a) $\frac{9}{28} : \frac{2}{7} =$

b) $\frac{3}{4} : \frac{11}{14} =$

c) $\frac{23}{26} : \frac{1}{2} =$

d) $\frac{5}{8} : \frac{7}{20} =$

② a) $\frac{2}{19} : \frac{2}{11} =$

b) $\frac{1}{12} : \frac{1}{30} =$

c) $\frac{2}{3} : \frac{17}{45} =$

d) $\frac{2}{21} : \frac{2}{5} =$

③ a) $\frac{3}{13} : \frac{6}{29} =$

b) $\frac{3}{10} : \frac{7}{30} =$

c) $\frac{2}{37} : \frac{2}{35} =$

d) $\frac{23}{28} : \frac{3}{4} =$

④ a) $\frac{4}{5} : \frac{8}{13} =$

b) $\frac{1}{40} : \frac{1}{12} =$

c) $\frac{1}{3} : \frac{20}{21} =$

d) $\frac{6}{11} : \frac{3}{14} =$

⑤ a) $\frac{16}{23} : \frac{2}{5} =$

b) $\frac{1}{6} : \frac{11}{42} =$

c) $\frac{4}{7} : \frac{10}{17} =$

d) $\frac{8}{21} : \frac{1}{9} =$

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

- ① a) $\frac{9}{28} : \frac{2}{7} = \frac{9}{28} \cdot \frac{7}{2} = \frac{9 \cdot 7}{4 \cdot 2} = 1 \frac{1}{8}$ b) $\frac{3}{4} : \frac{11}{14} = \frac{3}{4} \cdot \frac{14}{11} = \frac{3 \cdot 7}{2 \cdot 11} = \frac{21}{22}$
- c) $\frac{23}{26} : \frac{1}{2} = \frac{23}{26} \cdot \frac{2}{1} = \frac{23 \cdot 1}{13 \cdot 1} = 1 \frac{10}{13}$ d) $\frac{5}{8} : \frac{7}{20} = \frac{5}{8} \cdot \frac{20}{7} = \frac{5 \cdot 5}{2 \cdot 7} = 1 \frac{11}{14}$
- ② a) $\frac{2}{19} : \frac{2}{11} = \frac{2}{19} \cdot \frac{11}{2} = \frac{1 \cdot 11}{19 \cdot 1} = \frac{11}{19}$ b) $\frac{1}{12} : \frac{1}{30} = \frac{1}{12} \cdot \frac{30}{1} = \frac{1 \cdot 5}{2 \cdot 1} = 2 \frac{1}{2}$
- c) $\frac{2}{3} : \frac{17}{45} = \frac{2}{3} \cdot \frac{45}{17} = \frac{2 \cdot 15}{1 \cdot 17} = 1 \frac{13}{17}$ d) $\frac{2}{21} : \frac{2}{5} = \frac{2}{21} \cdot \frac{5}{2} = \frac{1 \cdot 5}{21 \cdot 1} = \frac{5}{21}$
- ③ a) $\frac{3}{13} : \frac{6}{29} = \frac{3}{13} \cdot \frac{29}{6} = \frac{1 \cdot 29}{13 \cdot 2} = 1 \frac{3}{26}$ b) $\frac{3}{10} : \frac{7}{30} = \frac{3}{10} \cdot \frac{30}{7} = \frac{3 \cdot 3}{1 \cdot 7} = 1 \frac{2}{7}$
- c) $\frac{2}{37} : \frac{2}{35} = \frac{2}{37} \cdot \frac{35}{2} = \frac{1 \cdot 35}{37 \cdot 1} = \frac{35}{37}$ d) $\frac{23}{28} : \frac{3}{4} = \frac{23}{28} \cdot \frac{4}{3} = \frac{23 \cdot 1}{7 \cdot 3} = 1 \frac{2}{21}$
- ④ a) $\frac{4}{5} : \frac{8}{13} = \frac{4}{5} \cdot \frac{13}{8} = \frac{1 \cdot 13}{5 \cdot 2} = 1 \frac{3}{10}$ b) $\frac{1}{40} : \frac{1}{12} = \frac{1}{40} \cdot \frac{12}{1} = \frac{1 \cdot 3}{10 \cdot 1} = \frac{3}{10}$
- c) $\frac{1}{3} : \frac{20}{21} = \frac{1}{3} \cdot \frac{21}{20} = \frac{1 \cdot 7}{1 \cdot 20} = \frac{7}{20}$ d) $\frac{6}{11} : \frac{3}{14} = \frac{6}{11} \cdot \frac{14}{3} = \frac{2 \cdot 14}{11 \cdot 1} = 2 \frac{6}{11}$
- ⑤ a) $\frac{16}{23} : \frac{2}{5} = \frac{16}{23} \cdot \frac{5}{2} = \frac{8 \cdot 5}{23 \cdot 1} = 1 \frac{17}{23}$ b) $\frac{1}{6} : \frac{11}{42} = \frac{1}{6} \cdot \frac{42}{11} = \frac{1 \cdot 7}{1 \cdot 11} = \frac{7}{11}$
- c) $\frac{4}{7} : \frac{10}{17} = \frac{4}{7} \cdot \frac{17}{10} = \frac{2 \cdot 17}{7 \cdot 5} = \frac{34}{35}$ d) $\frac{8}{21} : \frac{1}{9} = \frac{8}{21} \cdot \frac{9}{1} = \frac{8 \cdot 3}{7 \cdot 1} = 3 \frac{3}{7}$