

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

① a)  $\frac{13}{16} : \frac{3}{4} =$

b)  $\frac{1}{14} : \frac{5}{21} =$

c)  $\frac{1}{2} : \frac{1}{24} =$

d)  $\frac{2}{3} : \frac{2}{13} =$

② a)  $\frac{3}{19} : \frac{3}{5} =$

b)  $\frac{1}{12} : \frac{5}{14} =$

c)  $\frac{7}{40} : \frac{1}{10} =$

d)  $\frac{3}{4} : \frac{6}{17} =$

③ a)  $\frac{1}{11} : \frac{7}{33} =$

b)  $\frac{1}{42} : \frac{2}{21} =$

c)  $\frac{7}{36} : \frac{1}{6} =$

d)  $\frac{4}{9} : \frac{8}{25} =$

④ a)  $\frac{1}{14} : \frac{5}{38} =$

b)  $\frac{16}{39} : \frac{2}{3} =$

c)  $\frac{4}{21} : \frac{4}{23} =$

d)  $\frac{6}{7} : \frac{9}{16} =$

⑤ a)  $\frac{1}{12} : \frac{7}{44} =$

b)  $\frac{1}{30} : \frac{1}{5} =$

c)  $\frac{6}{17} : \frac{3}{11} =$

d)  $\frac{7}{10} : \frac{5}{14} =$

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

- ① a)  $\frac{13}{16} : \frac{3}{4} = \frac{13}{16} \cdot \frac{4}{3} = \frac{13 \cdot 1}{4 \cdot 3} = 1 \frac{1}{12}$       b)  $\frac{1}{14} : \frac{5}{21} = \frac{1}{14} \cdot \frac{21}{5} = \frac{1 \cdot 3}{2 \cdot 5} = \frac{3}{10}$
- c)  $\frac{1}{2} : \frac{1}{24} = \frac{1}{2} \cdot \frac{24}{1} = \frac{1 \cdot 12}{1 \cdot 1} = 12$       d)  $\frac{2}{3} : \frac{2}{13} = \frac{2}{3} \cdot \frac{13}{2} = \frac{1 \cdot 13}{3 \cdot 1} = 4 \frac{1}{3}$
- ② a)  $\frac{3}{19} : \frac{3}{5} = \frac{3}{19} \cdot \frac{5}{3} = \frac{1 \cdot 5}{19 \cdot 1} = \frac{5}{19}$       b)  $\frac{1}{12} : \frac{5}{14} = \frac{1}{12} \cdot \frac{14}{5} = \frac{1 \cdot 7}{6 \cdot 5} = \frac{7}{30}$
- c)  $\frac{7}{40} : \frac{1}{10} = \frac{7}{40} \cdot \frac{10}{1} = \frac{7 \cdot 1}{4 \cdot 1} = 1 \frac{3}{4}$       d)  $\frac{3}{4} : \frac{6}{17} = \frac{3}{4} \cdot \frac{17}{6} = \frac{1 \cdot 17}{4 \cdot 2} = 2 \frac{1}{8}$
- ③ a)  $\frac{1}{11} : \frac{7}{33} = \frac{1}{11} \cdot \frac{33}{7} = \frac{1 \cdot 3}{1 \cdot 7} = \frac{3}{7}$       b)  $\frac{1}{42} : \frac{2}{21} = \frac{1}{42} \cdot \frac{21}{2} = \frac{1 \cdot 1}{2 \cdot 2} = \frac{1}{4}$
- c)  $\frac{7}{36} : \frac{1}{6} = \frac{7}{36} \cdot \frac{6}{1} = \frac{7 \cdot 1}{6 \cdot 1} = 1 \frac{1}{6}$       d)  $\frac{4}{9} : \frac{8}{25} = \frac{4}{9} \cdot \frac{25}{8} = \frac{1 \cdot 25}{9 \cdot 2} = 1 \frac{7}{18}$
- ④ a)  $\frac{1}{14} : \frac{5}{38} = \frac{1}{14} \cdot \frac{38}{5} = \frac{1 \cdot 19}{7 \cdot 5} = \frac{19}{35}$       b)  $\frac{16}{39} : \frac{2}{3} = \frac{16}{39} \cdot \frac{3}{2} = \frac{8 \cdot 1}{13 \cdot 1} = \frac{8}{13}$
- c)  $\frac{4}{21} : \frac{4}{23} = \frac{4}{21} \cdot \frac{23}{4} = \frac{1 \cdot 23}{21 \cdot 1} = 1 \frac{2}{21}$       d)  $\frac{6}{7} : \frac{9}{16} = \frac{6}{7} \cdot \frac{16}{9} = \frac{2 \cdot 16}{7 \cdot 3} = 1 \frac{11}{21}$
- ⑤ a)  $\frac{1}{12} : \frac{7}{44} = \frac{1}{12} \cdot \frac{44}{7} = \frac{1 \cdot 11}{3 \cdot 7} = \frac{11}{21}$       b)  $\frac{1}{30} : \frac{1}{5} = \frac{1}{30} \cdot \frac{5}{1} = \frac{1 \cdot 1}{6 \cdot 1} = \frac{1}{6}$
- c)  $\frac{6}{17} : \frac{3}{11} = \frac{6}{17} \cdot \frac{11}{3} = \frac{2 \cdot 11}{17 \cdot 1} = 1 \frac{5}{17}$       d)  $\frac{7}{10} : \frac{5}{14} = \frac{7}{10} \cdot \frac{14}{5} = \frac{7 \cdot 7}{5 \cdot 5} = 1 \frac{24}{25}$