

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

① a)  $\frac{2}{15} : \frac{4}{23} =$

b)  $\frac{1}{20} : \frac{1}{5} =$

c)  $\frac{10}{31} : \frac{2}{7} =$

d)  $\frac{6}{13} : \frac{3}{13} =$

② a)  $\frac{3}{11} : \frac{9}{11} =$

b)  $\frac{1}{4} : \frac{19}{34} =$

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

d)  $\frac{1}{24} : \frac{1}{38} =$

③ a)  $\frac{1}{35} : \frac{2}{15} =$

b)  $\frac{2}{3} : \frac{18}{29} =$

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

d)  $\frac{2}{9} : \frac{10}{23} =$

④ a)  $\frac{4}{21} : \frac{2}{11} =$

b)  $\frac{3}{40} : \frac{1}{14} =$

c)  $\frac{3}{26} : \frac{3}{17} =$

d)  $\frac{11}{28} : \frac{2}{7} =$

⑤ a)  $\frac{1}{30} : \frac{1}{34} =$

b)  $\frac{1}{6} : \frac{10}{39} =$

c)  $\frac{8}{27} : \frac{2}{5} =$

d)  $\frac{6}{7} : \frac{9}{13} =$

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

- ① a)  $\frac{2}{15} : \frac{4}{23} = \frac{2}{15} \cdot \frac{23}{4} = \frac{1 \cdot 23}{15 \cdot 2} = \frac{23}{30}$       b)  $\frac{1}{20} : \frac{1}{5} = \frac{1}{20} \cdot \frac{5}{1} = \frac{1 \cdot 1}{4 \cdot 1} = \frac{1}{4}$
- c)  $\frac{10}{31} : \frac{2}{7} = \frac{10}{31} \cdot \frac{7}{2} = \frac{5 \cdot 7}{31 \cdot 1} = 1 \frac{4}{31}$       d)  $\frac{6}{13} : \frac{3}{13} = \frac{6}{13} \cdot \frac{13}{3} = \frac{2 \cdot 1}{1 \cdot 1} = 2$
- ② a)  $\frac{3}{11} : \frac{9}{11} = \frac{3}{11} \cdot \frac{11}{9} = \frac{1 \cdot 1}{1 \cdot 3} = \frac{1}{3}$       b)  $\frac{1}{4} : \frac{19}{34} = \frac{1}{4} \cdot \frac{34}{19} = \frac{1 \cdot 17}{2 \cdot 19} = \frac{17}{38}$
- c)  $\frac{4}{17} : \frac{4}{17} = \frac{4}{17} \cdot \frac{17}{4} = \frac{1 \cdot 1}{1 \cdot 1} = 1$       d)  $\frac{1}{24} : \frac{1}{38} = \frac{1}{24} \cdot \frac{38}{1} = \frac{1 \cdot 19}{12 \cdot 1} = 1 \frac{7}{12}$
- ③ a)  $\frac{1}{35} : \frac{2}{15} = \frac{1}{35} \cdot \frac{15}{2} = \frac{1 \cdot 3}{7 \cdot 2} = \frac{3}{14}$       b)  $\frac{2}{3} : \frac{18}{29} = \frac{2}{3} \cdot \frac{29}{18} = \frac{1 \cdot 29}{3 \cdot 9} = 1 \frac{2}{27}$
- c)  $\frac{6}{7} : \frac{9}{16} = \frac{6}{7} \cdot \frac{16}{9} = \frac{2 \cdot 16}{7 \cdot 3} = 1 \frac{11}{21}$       d)  $\frac{2}{9} : \frac{10}{23} = \frac{2}{9} \cdot \frac{23}{10} = \frac{1 \cdot 23}{9 \cdot 5} = \frac{23}{45}$
- ④ a)  $\frac{4}{21} : \frac{2}{11} = \frac{4}{21} \cdot \frac{11}{2} = \frac{2 \cdot 11}{21 \cdot 1} = 1 \frac{1}{21}$       b)  $\frac{3}{40} : \frac{1}{14} = \frac{3}{40} \cdot \frac{14}{1} = \frac{3 \cdot 7}{20 \cdot 1} = 1 \frac{1}{20}$
- c)  $\frac{3}{26} : \frac{3}{17} = \frac{3}{26} \cdot \frac{17}{3} = \frac{1 \cdot 17}{26 \cdot 1} = \frac{17}{26}$       d)  $\frac{11}{28} : \frac{2}{7} = \frac{11}{28} \cdot \frac{7}{2} = \frac{11 \cdot 1}{4 \cdot 2} = 1 \frac{3}{8}$
- ⑤ a)  $\frac{1}{30} : \frac{1}{34} = \frac{1}{30} \cdot \frac{34}{1} = \frac{1 \cdot 17}{15 \cdot 1} = 1 \frac{2}{15}$       b)  $\frac{1}{6} : \frac{10}{39} = \frac{1}{6} \cdot \frac{39}{10} = \frac{1 \cdot 13}{2 \cdot 10} = \frac{13}{20}$
- c)  $\frac{8}{27} : \frac{2}{5} = \frac{8}{27} \cdot \frac{5}{2} = \frac{4 \cdot 5}{27 \cdot 1} = \frac{20}{27}$       d)  $\frac{6}{7} : \frac{9}{13} = \frac{6}{7} \cdot \frac{13}{9} = \frac{2 \cdot 13}{7 \cdot 3} = 1 \frac{5}{21}$