

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

① a)  $\frac{2}{11} : \frac{1}{22} =$

b)  $\frac{4}{17} : \frac{2}{3} =$

c)  $\frac{3}{4} : \frac{5}{18} =$

d)  $\frac{2}{9} : \frac{1}{21} =$

② a)  $\frac{2}{19} : \frac{4}{11} =$

b)  $\frac{1}{2} : \frac{29}{42} =$

c)  $\frac{3}{8} : \frac{1}{8} =$

d)  $\frac{4}{15} : \frac{4}{25} =$

③ a)  $\frac{1}{40} : \frac{2}{45} =$

b)  $\frac{7}{24} : \frac{1}{10} =$

c)  $\frac{2}{7} : \frac{8}{35} =$

d)  $\frac{16}{27} : \frac{2}{3} =$

④ a)  $\frac{1}{4} : \frac{7}{34} =$

b)  $\frac{5}{36} : \frac{1}{18} =$

c)  $\frac{5}{17} : \frac{5}{14} =$

d)  $\frac{1}{21} : \frac{2}{39} =$

⑤ a)  $\frac{15}{22} : \frac{1}{6} =$

b)  $\frac{8}{11} : \frac{6}{11} =$

c)  $\frac{1}{2} : \frac{21}{26} =$

d)  $\frac{8}{15} : \frac{5}{9} =$

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

- ① a)  $\frac{2}{11} : \frac{1}{22} = \frac{2}{11} \cdot \frac{22}{1} = \frac{2 \cdot 2}{1 \cdot 1} = 4$       b)  $\frac{4}{17} : \frac{2}{3} = \frac{4}{17} \cdot \frac{3}{2} = \frac{2 \cdot 3}{17 \cdot 1} = \frac{6}{17}$
- c)  $\frac{3}{4} : \frac{5}{18} = \frac{3}{4} \cdot \frac{18}{5} = \frac{3 \cdot 9}{2 \cdot 5} = 2 \frac{7}{10}$       d)  $\frac{2}{9} : \frac{1}{21} = \frac{2}{9} \cdot \frac{21}{1} = \frac{2 \cdot 7}{3 \cdot 1} = 4 \frac{2}{3}$
- ② a)  $\frac{2}{19} : \frac{4}{11} = \frac{2}{19} \cdot \frac{11}{4} = \frac{1 \cdot 11}{19 \cdot 2} = \frac{11}{38}$       b)  $\frac{1}{2} : \frac{29}{42} = \frac{1}{2} \cdot \frac{42}{29} = \frac{1 \cdot 21}{1 \cdot 29} = \frac{21}{29}$
- c)  $\frac{3}{8} : \frac{1}{8} = \frac{3}{8} \cdot \frac{8}{1} = \frac{3 \cdot 1}{1 \cdot 1} = 3$       d)  $\frac{4}{15} : \frac{4}{25} = \frac{4}{15} \cdot \frac{25}{4} = \frac{1 \cdot 5}{3 \cdot 1} = 1 \frac{2}{3}$
- ③ a)  $\frac{1}{40} : \frac{2}{45} = \frac{1}{40} \cdot \frac{45}{2} = \frac{1 \cdot 9}{8 \cdot 2} = \frac{9}{16}$       b)  $\frac{7}{24} : \frac{1}{10} = \frac{7}{24} \cdot \frac{10}{1} = \frac{7 \cdot 5}{12 \cdot 1} = 2 \frac{11}{12}$
- c)  $\frac{2}{7} : \frac{8}{35} = \frac{2}{7} \cdot \frac{35}{8} = \frac{1 \cdot 5}{1 \cdot 4} = 1 \frac{1}{4}$       d)  $\frac{16}{27} : \frac{2}{3} = \frac{16}{27} \cdot \frac{3}{2} = \frac{8 \cdot 1}{9 \cdot 1} = \frac{8}{9}$
- ④ a)  $\frac{1}{4} : \frac{7}{34} = \frac{1}{4} \cdot \frac{34}{7} = \frac{1 \cdot 17}{2 \cdot 7} = 1 \frac{3}{14}$       b)  $\frac{5}{36} : \frac{1}{18} = \frac{5}{36} \cdot \frac{18}{1} = \frac{5 \cdot 1}{2 \cdot 1} = 2 \frac{1}{2}$
- c)  $\frac{5}{17} : \frac{5}{14} = \frac{5}{17} \cdot \frac{14}{5} = \frac{1 \cdot 14}{17 \cdot 1} = \frac{14}{17}$       d)  $\frac{1}{21} : \frac{2}{39} = \frac{1}{21} \cdot \frac{39}{2} = \frac{1 \cdot 13}{7 \cdot 2} = \frac{13}{14}$
- ⑤ a)  $\frac{15}{22} : \frac{1}{6} = \frac{15}{22} \cdot \frac{6}{1} = \frac{15 \cdot 3}{11 \cdot 1} = 4 \frac{1}{11}$       b)  $\frac{8}{11} : \frac{6}{11} = \frac{8}{11} \cdot \frac{11}{6} = \frac{4 \cdot 1}{1 \cdot 3} = 1 \frac{1}{3}$
- c)  $\frac{1}{2} : \frac{21}{26} = \frac{1}{2} \cdot \frac{26}{21} = \frac{1 \cdot 13}{1 \cdot 21} = \frac{13}{21}$       d)  $\frac{8}{15} : \frac{5}{9} = \frac{8}{15} \cdot \frac{9}{5} = \frac{8 \cdot 3}{5 \cdot 5} = \frac{24}{25}$