

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

① a)  $\frac{2}{9} : \frac{5}{21} =$

b)  $\frac{9}{28} : \frac{1}{8} =$

c)  $\frac{4}{5} : \frac{8}{19} =$

d)  $\frac{1}{6} : \frac{11}{26} =$

② a)  $\frac{4}{23} : \frac{4}{23} =$

b)  $\frac{7}{20} : \frac{1}{4} =$

c)  $\frac{1}{10} : \frac{5}{22} =$

d)  $\frac{2}{9} : \frac{6}{13} =$

③ a)  $\frac{2}{3} : \frac{16}{25} =$

b)  $\frac{5}{39} : \frac{1}{12} =$

c)  $\frac{3}{4} : \frac{23}{26} =$

d)  $\frac{1}{14} : \frac{5}{16} =$

④ a)  $\frac{8}{11} : \frac{1}{11} =$

b)  $\frac{15}{17} : \frac{3}{5} =$

c)  $\frac{2}{9} : \frac{11}{45} =$

d)  $\frac{2}{3} : \frac{2}{43} =$

⑤ a)  $\frac{5}{6} : \frac{7}{10} =$

b)  $\frac{1}{21} : \frac{4}{39} =$

c)  $\frac{2}{5} : \frac{18}{35} =$

d)  $\frac{12}{13} : \frac{3}{4} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{9} : \frac{5}{21} = \frac{2}{9} \cdot \frac{21}{5} = \frac{2 \cdot 7}{3 \cdot 5} = \frac{14}{15} \quad \text{b) } \frac{9}{28} : \frac{1}{8} = \frac{9}{28} \cdot \frac{8}{1} = \frac{9 \cdot 2}{7 \cdot 1} = 2 \frac{4}{7}$$

$$\text{c) } \frac{4}{5} : \frac{8}{19} = \frac{4}{5} \cdot \frac{19}{8} = \frac{1 \cdot 19}{5 \cdot 2} = 1 \frac{9}{10} \quad \text{d) } \frac{1}{6} : \frac{11}{26} = \frac{1}{6} \cdot \frac{26}{11} = \frac{1 \cdot 13}{3 \cdot 11} = \frac{13}{33}$$

$$\textcircled{2} \quad \text{a) } \frac{4}{23} : \frac{4}{23} = \frac{4}{23} \cdot \frac{23}{4} = \frac{1 \cdot 1}{1 \cdot 1} = 1 \quad \text{b) } \frac{7}{20} : \frac{1}{4} = \frac{7}{20} \cdot \frac{4}{1} = \frac{7 \cdot 1}{5 \cdot 1} = 1 \frac{2}{5}$$

$$\text{c) } \frac{1}{10} : \frac{5}{22} = \frac{1}{10} \cdot \frac{22}{5} = \frac{1 \cdot 11}{5 \cdot 5} = \frac{11}{25} \quad \text{d) } \frac{2}{9} : \frac{6}{13} = \frac{2}{9} \cdot \frac{13}{6} = \frac{1 \cdot 13}{9 \cdot 3} = \frac{13}{27}$$

$$\textcircled{3} \quad \text{a) } \frac{2}{3} : \frac{16}{25} = \frac{2}{3} \cdot \frac{25}{16} = \frac{1 \cdot 25}{3 \cdot 8} = 1 \frac{1}{24} \quad \text{b) } \frac{5}{39} : \frac{1}{12} = \frac{5}{39} \cdot \frac{12}{1} = \frac{5 \cdot 4}{13 \cdot 1} = 1 \frac{7}{13}$$

$$\text{c) } \frac{3}{4} : \frac{23}{26} = \frac{3}{4} \cdot \frac{26}{23} = \frac{3 \cdot 13}{2 \cdot 23} = \frac{39}{46} \quad \text{d) } \frac{1}{14} : \frac{5}{16} = \frac{1}{14} \cdot \frac{16}{5} = \frac{1 \cdot 8}{7 \cdot 5} = \frac{8}{35}$$

$$\textcircled{4} \quad \text{a) } \frac{8}{11} : \frac{1}{11} = \frac{8}{11} \cdot \frac{11}{1} = \frac{8 \cdot 1}{1 \cdot 1} = 8 \quad \text{b) } \frac{15}{17} : \frac{3}{5} = \frac{15}{17} \cdot \frac{5}{3} = \frac{5 \cdot 5}{17 \cdot 1} = 1 \frac{8}{17}$$

$$\text{c) } \frac{2}{9} : \frac{11}{45} = \frac{2}{9} \cdot \frac{45}{11} = \frac{2 \cdot 5}{1 \cdot 11} = \frac{10}{11} \quad \text{d) } \frac{2}{3} : \frac{2}{43} = \frac{2}{3} \cdot \frac{43}{2} = \frac{1 \cdot 43}{3 \cdot 1} = 14 \frac{1}{3}$$

$$\textcircled{5} \quad \text{a) } \frac{5}{6} : \frac{7}{10} = \frac{5}{6} \cdot \frac{10}{7} = \frac{5 \cdot 5}{3 \cdot 7} = 1 \frac{4}{21} \quad \text{b) } \frac{1}{21} : \frac{4}{39} = \frac{1}{21} \cdot \frac{39}{4} = \frac{1 \cdot 13}{7 \cdot 4} = \frac{13}{28}$$

$$\text{c) } \frac{2}{5} : \frac{18}{35} = \frac{2}{5} \cdot \frac{35}{18} = \frac{1 \cdot 7}{1 \cdot 9} = \frac{7}{9} \quad \text{d) } \frac{12}{13} : \frac{3}{4} = \frac{12}{13} \cdot \frac{4}{3} = \frac{4 \cdot 4}{13 \cdot 1} = 1 \frac{3}{13}$$