

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

① a) $\frac{3}{23} : \frac{4}{23} =$

b) $\frac{2}{15} : \frac{1}{12} =$

c) $\frac{4}{37} : \frac{2}{19} =$

d) $\frac{1}{24} : \frac{3}{16} =$

② a) $\frac{3}{40} : \frac{1}{26} =$

b) $\frac{8}{23} : \frac{2}{11} =$

c) $\frac{2}{21} : \frac{4}{25} =$

d) $\frac{2}{9} : \frac{10}{27} =$

③ a) $\frac{1}{39} : \frac{1}{39} =$

b) $\frac{14}{37} : \frac{2}{7} =$

c) $\frac{8}{25} : \frac{4}{5} =$

d) $\frac{2}{15} : \frac{1}{10} =$

④ a) $\frac{7}{8} : \frac{5}{6} =$

b) $\frac{1}{12} : \frac{7}{39} =$

c) $\frac{1}{26} : \frac{1}{40} =$

d) $\frac{16}{37} : \frac{2}{5} =$

⑤ a) $\frac{1}{11} : \frac{9}{44} =$

b) $\frac{27}{34} : \frac{1}{2} =$

c) $\frac{2}{3} : \frac{11}{27} =$

d) $\frac{7}{10} : \frac{7}{9} =$

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

$$\textcircled{1} \quad \text{a) } \frac{3}{23} : \frac{4}{23} = \frac{3}{23} \cdot \frac{23}{4} = \frac{3 \cdot 1}{1 \cdot 4} = \frac{3}{4} \quad \text{b) } \frac{2}{15} : \frac{1}{12} = \frac{2}{15} \cdot \frac{12}{1} = \frac{2 \cdot 4}{5 \cdot 1} = 1 \frac{3}{5}$$

$$\text{c) } \frac{4}{37} : \frac{2}{19} = \frac{4}{37} \cdot \frac{19}{2} = \frac{2 \cdot 19}{37 \cdot 1} = 1 \frac{1}{37} \quad \text{d) } \frac{1}{24} : \frac{3}{16} = \frac{1}{24} \cdot \frac{16}{3} = \frac{1 \cdot 2}{3 \cdot 3} = \frac{2}{9}$$

$$\textcircled{2} \quad \text{a) } \frac{3}{40} : \frac{1}{26} = \frac{3}{40} \cdot \frac{26}{1} = \frac{3 \cdot 13}{20 \cdot 1} = 1 \frac{19}{20} \quad \text{b) } \frac{8}{23} : \frac{2}{11} = \frac{8}{23} \cdot \frac{11}{2} = \frac{4 \cdot 11}{23 \cdot 1} = 1 \frac{21}{23}$$

$$\text{c) } \frac{2}{21} : \frac{4}{25} = \frac{2}{21} \cdot \frac{25}{4} = \frac{1 \cdot 25}{21 \cdot 2} = \frac{25}{42} \quad \text{d) } \frac{2}{9} : \frac{10}{27} = \frac{2}{9} \cdot \frac{27}{10} = \frac{1 \cdot 3}{1 \cdot 5} = \frac{3}{5}$$

$$\textcircled{3} \quad \text{a) } \frac{1}{39} : \frac{1}{39} = \frac{1}{39} \cdot \frac{39}{1} = \frac{1 \cdot 1}{1 \cdot 1} = 1 \quad \text{b) } \frac{14}{37} : \frac{2}{7} = \frac{14}{37} \cdot \frac{7}{2} = \frac{7 \cdot 7}{37 \cdot 1} = 1 \frac{12}{37}$$

$$\text{c) } \frac{8}{25} : \frac{4}{5} = \frac{8}{25} \cdot \frac{5}{4} = \frac{2 \cdot 1}{5 \cdot 1} = \frac{2}{5} \quad \text{d) } \frac{2}{15} : \frac{1}{10} = \frac{2}{15} \cdot \frac{10}{1} = \frac{2 \cdot 2}{3 \cdot 1} = 1 \frac{1}{3}$$

$$\textcircled{4} \quad \text{a) } \frac{7}{8} : \frac{5}{6} = \frac{7}{8} \cdot \frac{6}{5} = \frac{7 \cdot 3}{4 \cdot 5} = 1 \frac{1}{20} \quad \text{b) } \frac{1}{12} : \frac{7}{39} = \frac{1}{12} \cdot \frac{39}{7} = \frac{1 \cdot 13}{4 \cdot 7} = \frac{13}{28}$$

$$\text{c) } \frac{1}{26} : \frac{1}{40} = \frac{1}{26} \cdot \frac{40}{1} = \frac{1 \cdot 20}{13 \cdot 1} = 1 \frac{7}{13} \quad \text{d) } \frac{16}{37} : \frac{2}{5} = \frac{16}{37} \cdot \frac{5}{2} = \frac{8 \cdot 5}{37 \cdot 1} = 1 \frac{3}{37}$$

$$\textcircled{5} \quad \text{a) } \frac{1}{11} : \frac{9}{44} = \frac{1}{11} \cdot \frac{44}{9} = \frac{1 \cdot 4}{1 \cdot 9} = \frac{4}{9} \quad \text{b) } \frac{27}{34} : \frac{1}{2} = \frac{27}{34} \cdot \frac{2}{1} = \frac{27 \cdot 1}{17 \cdot 1} = 1 \frac{10}{17}$$

$$\text{c) } \frac{2}{3} : \frac{11}{27} = \frac{2}{3} \cdot \frac{27}{11} = \frac{2 \cdot 9}{1 \cdot 11} = 1 \frac{7}{11} \quad \text{d) } \frac{7}{10} : \frac{7}{9} = \frac{7}{10} \cdot \frac{9}{7} = \frac{1 \cdot 9}{10 \cdot 1} = \frac{9}{10}$$