

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

① a) $\frac{1}{26} : \frac{1}{39} =$

b) $\frac{6}{13} : \frac{3}{7} =$

c) $\frac{5}{8} : \frac{7}{8} =$

d) $\frac{23}{45} : \frac{2}{3} =$

② a) $\frac{5}{28} : \frac{1}{16} =$

b) $\frac{5}{6} : \frac{5}{14} =$

c) $\frac{2}{39} : \frac{2}{35} =$

d) $\frac{4}{9} : \frac{11}{21} =$

③ a) $\frac{8}{19} : \frac{4}{11} =$

b) $\frac{2}{7} : \frac{6}{31} =$

c) $\frac{3}{22} : \frac{1}{6} =$

d) $\frac{8}{37} : \frac{2}{5} =$

④ a) $\frac{7}{20} : \frac{3}{10} =$

b) $\frac{7}{36} : \frac{1}{12} =$

c) $\frac{2}{25} : \frac{4}{13} =$

d) $\frac{15}{16} : \frac{3}{4} =$

⑤ a) $\frac{1}{3} : \frac{1}{39} =$

b) $\frac{2}{23} : \frac{4}{31} =$

c) $\frac{3}{20} : \frac{5}{32} =$

d) $\frac{4}{7} : \frac{1}{7} =$

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

$$\textcircled{1} \quad \text{a) } \frac{1}{26} : \frac{1}{39} = \frac{1}{26} \cdot \frac{39}{1} = \frac{1 \cdot 3}{2 \cdot 1} = 1 \frac{1}{2} \quad \text{b) } \frac{6}{13} : \frac{3}{7} = \frac{6}{13} \cdot \frac{7}{3} = \frac{2 \cdot 7}{13 \cdot 1} = 1 \frac{1}{13}$$

$$\text{c) } \frac{5}{8} : \frac{7}{8} = \frac{5}{8} \cdot \frac{8}{7} = \frac{5 \cdot 1}{1 \cdot 7} = \frac{5}{7} \quad \text{d) } \frac{23}{45} : \frac{2}{3} = \frac{23}{45} \cdot \frac{3}{2} = \frac{23 \cdot 1}{15 \cdot 2} = \frac{23}{30}$$

$$\textcircled{2} \quad \text{a) } \frac{5}{28} : \frac{1}{16} = \frac{5}{28} \cdot \frac{16}{1} = \frac{5 \cdot 4}{7 \cdot 1} = 2 \frac{6}{7} \quad \text{b) } \frac{5}{6} : \frac{5}{14} = \frac{5}{6} \cdot \frac{14}{5} = \frac{1 \cdot 7}{3 \cdot 1} = 2 \frac{1}{3}$$

$$\text{c) } \frac{2}{39} : \frac{2}{35} = \frac{2}{39} \cdot \frac{35}{2} = \frac{1 \cdot 35}{39 \cdot 1} = \frac{35}{39} \quad \text{d) } \frac{4}{9} : \frac{11}{21} = \frac{4}{9} \cdot \frac{21}{11} = \frac{4 \cdot 7}{3 \cdot 11} = \frac{28}{33}$$

$$\textcircled{3} \quad \text{a) } \frac{8}{19} : \frac{4}{11} = \frac{8}{19} \cdot \frac{11}{4} = \frac{2 \cdot 11}{19 \cdot 1} = 1 \frac{3}{19} \quad \text{b) } \frac{2}{7} : \frac{6}{31} = \frac{2}{7} \cdot \frac{31}{6} = \frac{1 \cdot 31}{7 \cdot 3} = 1 \frac{10}{21}$$

$$\text{c) } \frac{3}{22} : \frac{1}{6} = \frac{3}{22} \cdot \frac{6}{1} = \frac{3 \cdot 3}{11 \cdot 1} = \frac{9}{11} \quad \text{d) } \frac{8}{37} : \frac{2}{5} = \frac{8}{37} \cdot \frac{5}{2} = \frac{4 \cdot 5}{37 \cdot 1} = \frac{20}{37}$$

$$\textcircled{4} \quad \text{a) } \frac{7}{20} : \frac{3}{10} = \frac{7}{20} \cdot \frac{10}{3} = \frac{7 \cdot 1}{2 \cdot 3} = 1 \frac{1}{6} \quad \text{b) } \frac{7}{36} : \frac{1}{12} = \frac{7}{36} \cdot \frac{12}{1} = \frac{7 \cdot 1}{3 \cdot 1} = 2 \frac{1}{3}$$

$$\text{c) } \frac{2}{25} : \frac{4}{13} = \frac{2}{25} \cdot \frac{13}{4} = \frac{1 \cdot 13}{25 \cdot 2} = \frac{13}{50} \quad \text{d) } \frac{15}{16} : \frac{3}{4} = \frac{15}{16} \cdot \frac{4}{3} = \frac{5 \cdot 1}{4 \cdot 1} = 1 \frac{1}{4}$$

$$\textcircled{5} \quad \text{a) } \frac{1}{3} : \frac{1}{39} = \frac{1}{3} \cdot \frac{39}{1} = \frac{1 \cdot 13}{1 \cdot 1} = 13 \quad \text{b) } \frac{2}{23} : \frac{4}{31} = \frac{2}{23} \cdot \frac{31}{4} = \frac{1 \cdot 31}{23 \cdot 2} = \frac{31}{46}$$

$$\text{c) } \frac{3}{20} : \frac{5}{32} = \frac{3}{20} \cdot \frac{32}{5} = \frac{3 \cdot 8}{5 \cdot 5} = \frac{24}{25} \quad \text{d) } \frac{4}{7} : \frac{1}{7} = \frac{4}{7} \cdot \frac{7}{1} = \frac{4 \cdot 1}{1 \cdot 1} = 4$$