

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

① a)  $\frac{2}{5} : \frac{6}{37} =$

b)  $\frac{8}{15} : \frac{4}{9} =$

c)  $\frac{1}{40} : \frac{1}{25} =$

d)  $\frac{9}{11} : \frac{6}{7} =$

② a)  $\frac{2}{37} : \frac{2}{39} =$

b)  $\frac{9}{10} : \frac{7}{8} =$

c)  $\frac{15}{31} : \frac{3}{4} =$

d)  $\frac{1}{27} : \frac{1}{27} =$

③ a)  $\frac{2}{11} : \frac{4}{29} =$

b)  $\frac{3}{26} : \frac{3}{19} =$

c)  $\frac{2}{17} : \frac{5}{34} =$

d)  $\frac{12}{35} : \frac{1}{5} =$

④ a)  $\frac{20}{21} : \frac{2}{3} =$

b)  $\frac{7}{18} : \frac{5}{12} =$

c)  $\frac{3}{10} : \frac{9}{25} =$

d)  $\frac{7}{8} : \frac{7}{8} =$

⑤ a)  $\frac{14}{15} : \frac{4}{5} =$

b)  $\frac{1}{20} : \frac{3}{14} =$

c)  $\frac{2}{11} : \frac{2}{37} =$

d)  $\frac{3}{4} : \frac{9}{22} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{5} : \frac{6}{37} = \frac{2}{5} \cdot \frac{37}{6} = \frac{1 \cdot 37}{5 \cdot 3} = 2 \frac{7}{15} \quad \text{b) } \frac{8}{15} : \frac{4}{9} = \frac{8}{15} \cdot \frac{9}{4} = \frac{2 \cdot 3}{5 \cdot 1} = 1 \frac{1}{5}$$

$$\text{c) } \frac{1}{40} : \frac{1}{25} = \frac{1}{40} \cdot \frac{25}{1} = \frac{1 \cdot 5}{8 \cdot 1} = \frac{5}{8} \quad \text{d) } \frac{9}{11} : \frac{6}{7} = \frac{9}{11} \cdot \frac{7}{6} = \frac{3 \cdot 7}{11 \cdot 2} = \frac{21}{22}$$

$$\textcircled{2} \quad \text{a) } \frac{2}{37} : \frac{2}{39} = \frac{2}{37} \cdot \frac{39}{2} = \frac{1 \cdot 39}{37 \cdot 1} = 1 \frac{2}{37} \quad \text{b) } \frac{9}{10} : \frac{7}{8} = \frac{9}{10} \cdot \frac{8}{7} = \frac{9 \cdot 4}{5 \cdot 7} = 1 \frac{1}{35}$$

$$\text{c) } \frac{15}{31} : \frac{3}{4} = \frac{15}{31} \cdot \frac{4}{3} = \frac{5 \cdot 4}{31 \cdot 1} = \frac{20}{31} \quad \text{d) } \frac{1}{27} : \frac{1}{27} = \frac{1}{27} \cdot \frac{27}{1} = \frac{1 \cdot 1}{1 \cdot 1} = 1$$

$$\textcircled{3} \quad \text{a) } \frac{2}{11} : \frac{4}{29} = \frac{2}{11} \cdot \frac{29}{4} = \frac{1 \cdot 29}{11 \cdot 2} = 1 \frac{7}{22} \quad \text{b) } \frac{3}{26} : \frac{3}{19} = \frac{3}{26} \cdot \frac{19}{3} = \frac{1 \cdot 19}{26 \cdot 1} = \frac{19}{26}$$

$$\text{c) } \frac{2}{17} : \frac{5}{34} = \frac{2}{17} \cdot \frac{34}{5} = \frac{2 \cdot 2}{1 \cdot 5} = \frac{4}{5} \quad \text{d) } \frac{12}{35} : \frac{1}{5} = \frac{12}{35} \cdot \frac{5}{1} = \frac{12 \cdot 1}{7 \cdot 1} = 1 \frac{5}{7}$$

$$\textcircled{4} \quad \text{a) } \frac{20}{21} : \frac{2}{3} = \frac{20}{21} \cdot \frac{3}{2} = \frac{10 \cdot 1}{7 \cdot 1} = 1 \frac{3}{7} \quad \text{b) } \frac{7}{18} : \frac{5}{12} = \frac{7}{18} \cdot \frac{12}{5} = \frac{7 \cdot 2}{3 \cdot 5} = \frac{14}{15}$$

$$\text{c) } \frac{3}{10} : \frac{9}{25} = \frac{3}{10} \cdot \frac{25}{9} = \frac{1 \cdot 5}{2 \cdot 3} = \frac{5}{6} \quad \text{d) } \frac{7}{8} : \frac{7}{8} = \frac{7}{8} \cdot \frac{8}{7} = \frac{1 \cdot 1}{1 \cdot 1} = 1$$

$$\textcircled{5} \quad \text{a) } \frac{14}{15} : \frac{4}{5} = \frac{14}{15} \cdot \frac{5}{4} = \frac{7 \cdot 1}{3 \cdot 2} = 1 \frac{1}{6} \quad \text{b) } \frac{1}{20} : \frac{3}{14} = \frac{1}{20} \cdot \frac{14}{3} = \frac{1 \cdot 7}{10 \cdot 3} = \frac{7}{30}$$

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