

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

① a)  $\frac{2}{9} : \frac{2}{45} =$

b)  $\frac{19}{22} : \frac{1}{4} =$

c)  $\frac{1}{32} : \frac{3}{32} =$

d)  $\frac{1}{8} : \frac{11}{40} =$

② a)  $\frac{1}{14} : \frac{2}{35} =$

b)  $\frac{3}{7} : \frac{3}{11} =$

c)  $\frac{4}{19} : \frac{4}{9} =$

d)  $\frac{3}{5} : \frac{11}{25} =$

③ a)  $\frac{2}{45} : \frac{1}{36} =$

b)  $\frac{20}{31} : \frac{2}{3} =$

c)  $\frac{1}{4} : \frac{15}{28} =$

d)  $\frac{4}{13} : \frac{1}{13} =$

④ a)  $\frac{3}{11} : \frac{3}{16} =$

b)  $\frac{1}{2} : \frac{29}{44} =$

c)  $\frac{1}{6} : \frac{9}{10} =$

d)  $\frac{6}{13} : \frac{5}{13} =$

⑤ a)  $\frac{3}{7} : \frac{2}{7} =$

b)  $\frac{3}{40} : \frac{1}{5} =$

c)  $\frac{3}{8} : \frac{5}{8} =$

d)  $\frac{7}{10} : \frac{9}{14} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{9} : \frac{2}{45} = \frac{2}{9} \cdot \frac{45}{2} = \frac{1 \cdot 5}{1 \cdot 1} = 5 \qquad \text{b) } \frac{19}{22} : \frac{1}{4} = \frac{19}{22} \cdot \frac{4}{1} = \frac{19 \cdot 2}{11 \cdot 1} = 3 \frac{5}{11}$$

$$\text{c) } \frac{1}{32} : \frac{3}{32} = \frac{1}{32} \cdot \frac{32}{3} = \frac{1 \cdot 1}{1 \cdot 3} = \frac{1}{3} \qquad \text{d) } \frac{1}{8} : \frac{11}{40} = \frac{1}{8} \cdot \frac{40}{11} = \frac{1 \cdot 5}{1 \cdot 11} = \frac{5}{11}$$

$$\textcircled{2} \quad \text{a) } \frac{1}{14} : \frac{2}{35} = \frac{1}{14} \cdot \frac{35}{2} = \frac{1 \cdot 5}{2 \cdot 2} = 1 \frac{1}{4} \qquad \text{b) } \frac{3}{7} : \frac{3}{11} = \frac{3}{7} \cdot \frac{11}{3} = \frac{1 \cdot 11}{7 \cdot 1} = 1 \frac{4}{7}$$

$$\text{c) } \frac{4}{19} : \frac{4}{9} = \frac{4}{19} \cdot \frac{9}{4} = \frac{1 \cdot 9}{19 \cdot 1} = \frac{9}{19} \qquad \text{d) } \frac{3}{5} : \frac{11}{25} = \frac{3}{5} \cdot \frac{25}{11} = \frac{3 \cdot 5}{1 \cdot 11} = 1 \frac{4}{11}$$

$$\textcircled{3} \quad \text{a) } \frac{2}{45} : \frac{1}{36} = \frac{2}{45} \cdot \frac{36}{1} = \frac{2 \cdot 4}{5 \cdot 1} = 1 \frac{3}{5} \qquad \text{b) } \frac{20}{31} : \frac{2}{3} = \frac{20}{31} \cdot \frac{3}{2} = \frac{10 \cdot 3}{31 \cdot 1} = \frac{30}{31}$$

$$\text{c) } \frac{1}{4} : \frac{15}{28} = \frac{1}{4} \cdot \frac{28}{15} = \frac{1 \cdot 7}{1 \cdot 15} = \frac{7}{15} \qquad \text{d) } \frac{4}{13} : \frac{1}{13} = \frac{4}{13} \cdot \frac{13}{1} = \frac{4 \cdot 1}{1 \cdot 1} = 4$$

$$\textcircled{4} \quad \text{a) } \frac{3}{11} : \frac{3}{16} = \frac{3}{11} \cdot \frac{16}{3} = \frac{1 \cdot 16}{11 \cdot 1} = 1 \frac{5}{11} \qquad \text{b) } \frac{1}{2} : \frac{29}{44} = \frac{1}{2} \cdot \frac{44}{29} = \frac{1 \cdot 22}{1 \cdot 29} = \frac{22}{29}$$

$$\text{c) } \frac{1}{6} : \frac{9}{10} = \frac{1}{6} \cdot \frac{10}{9} = \frac{1 \cdot 5}{3 \cdot 9} = \frac{5}{27} \qquad \text{d) } \frac{6}{13} : \frac{5}{13} = \frac{6}{13} \cdot \frac{13}{5} = \frac{6 \cdot 1}{1 \cdot 5} = 1 \frac{1}{5}$$

$$\textcircled{5} \quad \text{a) } \frac{3}{7} : \frac{2}{7} = \frac{3}{7} \cdot \frac{7}{2} = \frac{3 \cdot 1}{1 \cdot 2} = 1 \frac{1}{2} \qquad \text{b) } \frac{3}{40} : \frac{1}{5} = \frac{3}{40} \cdot \frac{5}{1} = \frac{3 \cdot 1}{8 \cdot 1} = \frac{3}{8}$$

$$\text{c) } \frac{3}{8} : \frac{5}{8} = \frac{3}{8} \cdot \frac{8}{5} = \frac{3 \cdot 1}{1 \cdot 5} = \frac{3}{5} \qquad \text{d) } \frac{7}{10} : \frac{9}{14} = \frac{7}{10} \cdot \frac{14}{9} = \frac{7 \cdot 7}{5 \cdot 9} = 1 \frac{4}{45}$$