

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

① a)  $\frac{2}{9} : \frac{11}{45} =$

b)  $\frac{7}{10} : \frac{1}{8} =$

c)  $\frac{3}{4} : \frac{6}{17} =$

d)  $\frac{6}{19} : \frac{2}{3} =$

② a)  $\frac{3}{40} : \frac{1}{25} =$

b)  $\frac{1}{2} : \frac{7}{44} =$

c)  $\frac{4}{11} : \frac{4}{7} =$

d)  $\frac{1}{36} : \frac{2}{9} =$

③ a)  $\frac{3}{8} : \frac{5}{24} =$

b)  $\frac{13}{30} : \frac{1}{4} =$

c)  $\frac{1}{10} : \frac{9}{35} =$

d)  $\frac{3}{11} : \frac{8}{11} =$

④ a)  $\frac{5}{36} : \frac{1}{18} =$

b)  $\frac{2}{3} : \frac{4}{27} =$

c)  $\frac{3}{31} : \frac{3}{20} =$

d)  $\frac{3}{8} : \frac{12}{25} =$

⑤ a)  $\frac{4}{13} : \frac{4}{13} =$

b)  $\frac{23}{38} : \frac{1}{4} =$

c)  $\frac{1}{2} : \frac{23}{44} =$

d)  $\frac{7}{24} : \frac{3}{14} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{9} : \frac{11}{45} = \frac{2}{9} \cdot \frac{45}{11} = \frac{2 \cdot 5}{1 \cdot 11} = \frac{10}{11} \quad \text{b) } \frac{7}{10} : \frac{1}{8} = \frac{7}{10} \cdot \frac{8}{1} = \frac{7 \cdot 4}{5 \cdot 1} = 5 \frac{3}{5}$$

$$\text{c) } \frac{3}{4} : \frac{6}{17} = \frac{3}{4} \cdot \frac{17}{6} = \frac{1 \cdot 17}{4 \cdot 2} = 2 \frac{1}{8} \quad \text{d) } \frac{6}{19} : \frac{2}{3} = \frac{6}{19} \cdot \frac{3}{2} = \frac{3 \cdot 3}{19 \cdot 1} = \frac{9}{19}$$

$$\textcircled{2} \quad \text{a) } \frac{3}{40} : \frac{1}{25} = \frac{3}{40} \cdot \frac{25}{1} = \frac{3 \cdot 5}{8 \cdot 1} = 1 \frac{7}{8} \quad \text{b) } \frac{1}{2} : \frac{7}{44} = \frac{1}{2} \cdot \frac{44}{7} = \frac{1 \cdot 22}{1 \cdot 7} = 3 \frac{1}{7}$$

$$\text{c) } \frac{4}{11} : \frac{4}{7} = \frac{4}{11} \cdot \frac{7}{4} = \frac{1 \cdot 7}{11 \cdot 1} = \frac{7}{11} \quad \text{d) } \frac{1}{36} : \frac{2}{9} = \frac{1}{36} \cdot \frac{9}{2} = \frac{1 \cdot 1}{4 \cdot 2} = \frac{1}{8}$$

$$\textcircled{3} \quad \text{a) } \frac{3}{8} : \frac{5}{24} = \frac{3}{8} \cdot \frac{24}{5} = \frac{3 \cdot 3}{1 \cdot 5} = 1 \frac{4}{5} \quad \text{b) } \frac{13}{30} : \frac{1}{4} = \frac{13}{30} \cdot \frac{4}{1} = \frac{13 \cdot 2}{15 \cdot 1} = 1 \frac{11}{15}$$

$$\text{c) } \frac{1}{10} : \frac{9}{35} = \frac{1}{10} \cdot \frac{35}{9} = \frac{1 \cdot 7}{2 \cdot 9} = \frac{7}{18} \quad \text{d) } \frac{3}{11} : \frac{8}{11} = \frac{3}{11} \cdot \frac{11}{8} = \frac{3 \cdot 1}{1 \cdot 8} = \frac{3}{8}$$

$$\textcircled{4} \quad \text{a) } \frac{5}{36} : \frac{1}{18} = \frac{5}{36} \cdot \frac{18}{1} = \frac{5 \cdot 1}{2 \cdot 1} = 2 \frac{1}{2} \quad \text{b) } \frac{2}{3} : \frac{4}{27} = \frac{2}{3} \cdot \frac{27}{4} = \frac{1 \cdot 9}{1 \cdot 2} = 4 \frac{1}{2}$$

$$\text{c) } \frac{3}{31} : \frac{3}{20} = \frac{3}{31} \cdot \frac{20}{3} = \frac{1 \cdot 20}{31 \cdot 1} = \frac{20}{31} \quad \text{d) } \frac{3}{8} : \frac{12}{25} = \frac{3}{8} \cdot \frac{25}{12} = \frac{1 \cdot 25}{8 \cdot 4} = \frac{25}{32}$$

$$\textcircled{5} \quad \text{a) } \frac{4}{13} : \frac{4}{13} = \frac{4}{13} \cdot \frac{13}{4} = \frac{1 \cdot 1}{1 \cdot 1} = 1 \quad \text{b) } \frac{23}{38} : \frac{1}{4} = \frac{23}{38} \cdot \frac{4}{1} = \frac{23 \cdot 2}{19 \cdot 1} = 2 \frac{8}{19}$$

$$\text{c) } \frac{1}{2} : \frac{23}{44} = \frac{1}{2} \cdot \frac{44}{23} = \frac{1 \cdot 22}{1 \cdot 23} = \frac{22}{23} \quad \text{d) } \frac{7}{24} : \frac{3}{14} = \frac{7}{24} \cdot \frac{14}{3} = \frac{7 \cdot 7}{12 \cdot 3} = 1 \frac{13}{36}$$