

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

① a)  $\frac{1}{6} : \frac{9}{14} =$

b)  $\frac{4}{7} : \frac{4}{19} =$

c)  $\frac{5}{16} : \frac{5}{18} =$

d)  $\frac{9}{32} : \frac{3}{4} =$

② a)  $\frac{4}{9} : \frac{4}{13} =$

b)  $\frac{8}{23} : \frac{2}{7} =$

c)  $\frac{3}{5} : \frac{15}{22} =$

d)  $\frac{2}{3} : \frac{16}{45} =$

③ a)  $\frac{4}{39} : \frac{1}{21} =$

b)  $\frac{7}{12} : \frac{7}{11} =$

c)  $\frac{2}{33} : \frac{2}{9} =$

d)  $\frac{5}{6} : \frac{9}{20} =$

④ a)  $\frac{1}{3} : \frac{7}{39} =$

b)  $\frac{2}{25} : \frac{4}{35} =$

c)  $\frac{3}{34} : \frac{2}{17} =$

d)  $\frac{4}{11} : \frac{5}{22} =$

⑤ a)  $\frac{10}{39} : \frac{1}{9} =$

b)  $\frac{1}{10} : \frac{6}{25} =$

c)  $\frac{2}{3} : \frac{10}{29} =$

d)  $\frac{13}{33} : \frac{1}{6} =$

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

$$\textcircled{1} \quad \text{a) } \frac{1}{6} : \frac{9}{14} = \frac{1}{6} \cdot \frac{14}{9} = \frac{1 \cdot 7}{3 \cdot 9} = \frac{7}{27} \quad \text{b) } \frac{4}{7} : \frac{4}{19} = \frac{4}{7} \cdot \frac{19}{4} = \frac{1 \cdot 19}{7 \cdot 1} = 2 \frac{5}{7}$$

$$\text{c) } \frac{5}{16} : \frac{5}{18} = \frac{5}{16} \cdot \frac{18}{5} = \frac{1 \cdot 9}{8 \cdot 1} = 1 \frac{1}{8} \quad \text{d) } \frac{9}{32} : \frac{3}{4} = \frac{9}{32} \cdot \frac{4}{3} = \frac{3 \cdot 1}{8 \cdot 1} = \frac{3}{8}$$

$$\textcircled{2} \quad \text{a) } \frac{4}{9} : \frac{4}{13} = \frac{4}{9} \cdot \frac{13}{4} = \frac{1 \cdot 13}{9 \cdot 1} = 1 \frac{4}{9} \quad \text{b) } \frac{8}{23} : \frac{2}{7} = \frac{8}{23} \cdot \frac{7}{2} = \frac{4 \cdot 7}{23 \cdot 1} = 1 \frac{5}{23}$$

$$\text{c) } \frac{3}{5} : \frac{15}{22} = \frac{3}{5} \cdot \frac{22}{15} = \frac{1 \cdot 22}{5 \cdot 5} = \frac{22}{25} \quad \text{d) } \frac{2}{3} : \frac{16}{45} = \frac{2}{3} \cdot \frac{45}{16} = \frac{1 \cdot 15}{1 \cdot 8} = 1 \frac{7}{8}$$

$$\textcircled{3} \quad \text{a) } \frac{4}{39} : \frac{1}{21} = \frac{4}{39} \cdot \frac{21}{1} = \frac{4 \cdot 7}{13 \cdot 1} = 2 \frac{2}{13} \quad \text{b) } \frac{7}{12} : \frac{7}{11} = \frac{7}{12} \cdot \frac{11}{7} = \frac{1 \cdot 11}{12 \cdot 1} = \frac{11}{12}$$

$$\text{c) } \frac{2}{33} : \frac{2}{9} = \frac{2}{33} \cdot \frac{9}{2} = \frac{1 \cdot 3}{11 \cdot 1} = \frac{3}{11} \quad \text{d) } \frac{5}{6} : \frac{9}{20} = \frac{5}{6} \cdot \frac{20}{9} = \frac{5 \cdot 10}{3 \cdot 9} = 1 \frac{23}{27}$$

$$\textcircled{4} \quad \text{a) } \frac{1}{3} : \frac{7}{39} = \frac{1}{3} \cdot \frac{39}{7} = \frac{1 \cdot 13}{1 \cdot 7} = 1 \frac{6}{7} \quad \text{b) } \frac{2}{25} : \frac{4}{35} = \frac{2}{25} \cdot \frac{35}{4} = \frac{1 \cdot 7}{5 \cdot 2} = \frac{7}{10}$$

$$\text{c) } \frac{3}{34} : \frac{2}{17} = \frac{3}{34} \cdot \frac{17}{2} = \frac{3 \cdot 1}{2 \cdot 2} = \frac{3}{4} \quad \text{d) } \frac{4}{11} : \frac{5}{22} = \frac{4}{11} \cdot \frac{22}{5} = \frac{4 \cdot 2}{1 \cdot 5} = 1 \frac{3}{5}$$

$$\textcircled{5} \quad \text{a) } \frac{10}{39} : \frac{1}{9} = \frac{10}{39} \cdot \frac{9}{1} = \frac{10 \cdot 3}{13 \cdot 1} = 2 \frac{4}{13} \quad \text{b) } \frac{1}{10} : \frac{6}{25} = \frac{1}{10} \cdot \frac{25}{6} = \frac{1 \cdot 5}{2 \cdot 6} = \frac{5}{12}$$

$$\text{c) } \frac{2}{3} : \frac{10}{29} = \frac{2}{3} \cdot \frac{29}{10} = \frac{1 \cdot 29}{3 \cdot 5} = 1 \frac{14}{15} \quad \text{d) } \frac{13}{33} : \frac{1}{6} = \frac{13}{33} \cdot \frac{6}{1} = \frac{13 \cdot 2}{11 \cdot 1} = 2 \frac{4}{11}$$