

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

① a)  $\frac{9}{23} : \frac{3}{10} =$

b)  $\frac{3}{32} : \frac{1}{18} =$

c)  $\frac{1}{3} : \frac{8}{9} =$

d)  $\frac{1}{5} : \frac{14}{15} =$

② a)  $\frac{1}{7} : \frac{1}{35} =$

b)  $\frac{2}{17} : \frac{4}{45} =$

c)  $\frac{12}{23} : \frac{3}{4} =$

d)  $\frac{1}{14} : \frac{5}{34} =$

③ a)  $\frac{9}{25} : \frac{1}{10} =$

b)  $\frac{4}{5} : \frac{2}{21} =$

c)  $\frac{3}{7} : \frac{4}{7} =$

d)  $\frac{2}{27} : \frac{1}{36} =$

④ a)  $\frac{10}{11} : \frac{5}{6} =$

b)  $\frac{1}{13} : \frac{6}{13} =$

c)  $\frac{3}{20} : \frac{1}{32} =$

d)  $\frac{9}{26} : \frac{3}{10} =$

⑤ a)  $\frac{1}{24} : \frac{2}{33} =$

b)  $\frac{4}{5} : \frac{6}{7} =$

c)  $\frac{11}{14} : \frac{1}{6} =$

d)  $\frac{1}{4} : \frac{3}{16} =$

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

$$\textcircled{1} \quad \text{a) } \frac{9}{23} : \frac{3}{10} = \frac{9}{23} \cdot \frac{10}{3} = \frac{3 \cdot 10}{23 \cdot 1} = 1 \frac{7}{23} \quad \text{b) } \frac{3}{32} : \frac{1}{18} = \frac{3}{32} \cdot \frac{18}{1} = \frac{3 \cdot 9}{16 \cdot 1} = 1 \frac{11}{16}$$

$$\text{c) } \frac{1}{3} : \frac{8}{9} = \frac{1}{3} \cdot \frac{9}{8} = \frac{1 \cdot 3}{1 \cdot 8} = \frac{3}{8} \quad \text{d) } \frac{1}{5} : \frac{14}{15} = \frac{1}{5} \cdot \frac{15}{14} = \frac{1 \cdot 3}{1 \cdot 14} = \frac{3}{14}$$

$$\textcircled{2} \quad \text{a) } \frac{1}{7} : \frac{1}{35} = \frac{1}{7} \cdot \frac{35}{1} = \frac{1 \cdot 5}{1 \cdot 1} = 5 \quad \text{b) } \frac{2}{17} : \frac{4}{45} = \frac{2}{17} \cdot \frac{45}{4} = \frac{1 \cdot 45}{17 \cdot 2} = 1 \frac{11}{34}$$

$$\text{c) } \frac{12}{23} : \frac{3}{4} = \frac{12}{23} \cdot \frac{4}{3} = \frac{4 \cdot 4}{23 \cdot 1} = \frac{16}{23} \quad \text{d) } \frac{1}{14} : \frac{5}{34} = \frac{1}{14} \cdot \frac{34}{5} = \frac{1 \cdot 17}{7 \cdot 5} = \frac{17}{35}$$

$$\textcircled{3} \quad \text{a) } \frac{9}{25} : \frac{1}{10} = \frac{9}{25} \cdot \frac{10}{1} = \frac{9 \cdot 2}{5 \cdot 1} = 3 \frac{3}{5} \quad \text{b) } \frac{4}{5} : \frac{2}{21} = \frac{4}{5} \cdot \frac{21}{2} = \frac{2 \cdot 21}{5 \cdot 1} = 8 \frac{2}{5}$$

$$\text{c) } \frac{3}{7} : \frac{4}{7} = \frac{3}{7} \cdot \frac{7}{4} = \frac{3 \cdot 1}{1 \cdot 4} = \frac{3}{4} \quad \text{d) } \frac{2}{27} : \frac{1}{36} = \frac{2}{27} \cdot \frac{36}{1} = \frac{2 \cdot 4}{3 \cdot 1} = 2 \frac{2}{3}$$

$$\textcircled{4} \quad \text{a) } \frac{10}{11} : \frac{5}{6} = \frac{10}{11} \cdot \frac{6}{5} = \frac{2 \cdot 6}{11 \cdot 1} = 1 \frac{1}{11} \quad \text{b) } \frac{1}{13} : \frac{6}{13} = \frac{1}{13} \cdot \frac{13}{6} = \frac{1 \cdot 1}{1 \cdot 6} = \frac{1}{6}$$

$$\text{c) } \frac{3}{20} : \frac{1}{32} = \frac{3}{20} \cdot \frac{32}{1} = \frac{3 \cdot 8}{5 \cdot 1} = 4 \frac{4}{5} \quad \text{d) } \frac{9}{26} : \frac{3}{10} = \frac{9}{26} \cdot \frac{10}{3} = \frac{3 \cdot 5}{13 \cdot 1} = 1 \frac{2}{13}$$

$$\textcircled{5} \quad \text{a) } \frac{1}{24} : \frac{2}{33} = \frac{1}{24} \cdot \frac{33}{2} = \frac{1 \cdot 11}{8 \cdot 2} = \frac{11}{16} \quad \text{b) } \frac{4}{5} : \frac{6}{7} = \frac{4}{5} \cdot \frac{7}{6} = \frac{2 \cdot 7}{5 \cdot 3} = \frac{14}{15}$$

$$\text{c) } \frac{11}{14} : \frac{1}{6} = \frac{11}{14} \cdot \frac{6}{1} = \frac{11 \cdot 3}{7 \cdot 1} = 4 \frac{5}{7} \quad \text{d) } \frac{1}{4} : \frac{3}{16} = \frac{1}{4} \cdot \frac{16}{3} = \frac{1 \cdot 4}{1 \cdot 3} = 1 \frac{1}{3}$$