

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

① a)  $\frac{5}{34} : \frac{2}{17} =$

b)  $\frac{7}{9} : \frac{1}{3} =$

c)  $\frac{8}{23} : \frac{4}{11} =$

d)  $\frac{3}{4} : \frac{23}{26} =$

② a)  $\frac{3}{35} : \frac{2}{25} =$

b)  $\frac{5}{21} : \frac{1}{12} =$

c)  $\frac{2}{5} : \frac{18}{19} =$

d)  $\frac{4}{7} : \frac{4}{13} =$

③ a)  $\frac{3}{14} : \frac{1}{20} =$

b)  $\frac{2}{9} : \frac{5}{18} =$

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

d)  $\frac{3}{34} : \frac{1}{28} =$

④ a)  $\frac{1}{6} : \frac{11}{30} =$

b)  $\frac{1}{10} : \frac{4}{25} =$

c)  $\frac{8}{45} : \frac{1}{12} =$

d)  $\frac{2}{27} : \frac{2}{43} =$

⑤ a)  $\frac{2}{15} : \frac{3}{20} =$

b)  $\frac{2}{23} : \frac{4}{13} =$

c)  $\frac{2}{33} : \frac{1}{42} =$

d)  $\frac{7}{8} : \frac{3}{4} =$

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

$$\textcircled{1} \quad \text{a) } \frac{5}{34} : \frac{2}{17} = \frac{5}{34} \cdot \frac{17}{2} = \frac{5 \cdot 17}{2 \cdot 2} = 1 \frac{1}{4} \quad \text{b) } \frac{7}{9} : \frac{1}{3} = \frac{7}{9} \cdot \frac{3}{1} = \frac{7 \cdot 1}{3 \cdot 1} = 2 \frac{1}{3}$$

$$\text{c) } \frac{8}{23} : \frac{4}{11} = \frac{8}{23} \cdot \frac{11}{4} = \frac{2 \cdot 11}{23 \cdot 1} = \frac{22}{23} \quad \text{d) } \frac{3}{4} : \frac{23}{26} = \frac{3}{4} \cdot \frac{26}{23} = \frac{3 \cdot 13}{2 \cdot 23} = \frac{39}{46}$$

$$\textcircled{2} \quad \text{a) } \frac{3}{35} : \frac{2}{25} = \frac{3}{35} \cdot \frac{25}{2} = \frac{3 \cdot 5}{7 \cdot 2} = 1 \frac{1}{14} \quad \text{b) } \frac{5}{21} : \frac{1}{12} = \frac{5}{21} \cdot \frac{12}{1} = \frac{5 \cdot 4}{7 \cdot 1} = 2 \frac{6}{7}$$

$$\text{c) } \frac{2}{5} : \frac{18}{19} = \frac{2}{5} \cdot \frac{19}{18} = \frac{1 \cdot 19}{5 \cdot 9} = \frac{19}{45} \quad \text{d) } \frac{4}{7} : \frac{4}{13} = \frac{4}{7} \cdot \frac{13}{4} = \frac{1 \cdot 13}{7 \cdot 1} = 1 \frac{6}{7}$$

$$\textcircled{3} \quad \text{a) } \frac{3}{14} : \frac{1}{20} = \frac{3}{14} \cdot \frac{20}{1} = \frac{3 \cdot 10}{7 \cdot 1} = 4 \frac{2}{7} \quad \text{b) } \frac{2}{9} : \frac{5}{18} = \frac{2}{9} \cdot \frac{18}{5} = \frac{2 \cdot 2}{1 \cdot 5} = \frac{4}{5}$$

$$\text{c) } \frac{3}{5} : \frac{3}{8} = \frac{3}{5} \cdot \frac{8}{3} = \frac{1 \cdot 8}{5 \cdot 1} = 1 \frac{3}{5} \quad \text{d) } \frac{3}{34} : \frac{1}{28} = \frac{3}{34} \cdot \frac{28}{1} = \frac{3 \cdot 14}{17 \cdot 1} = 2 \frac{8}{17}$$

$$\textcircled{4} \quad \text{a) } \frac{1}{6} : \frac{11}{30} = \frac{1}{6} \cdot \frac{30}{11} = \frac{1 \cdot 5}{1 \cdot 11} = \frac{5}{11} \quad \text{b) } \frac{1}{10} : \frac{4}{25} = \frac{1}{10} \cdot \frac{25}{4} = \frac{1 \cdot 5}{2 \cdot 4} = \frac{5}{8}$$

$$\text{c) } \frac{8}{45} : \frac{1}{12} = \frac{8}{45} \cdot \frac{12}{1} = \frac{8 \cdot 4}{15 \cdot 1} = 2 \frac{2}{15} \quad \text{d) } \frac{2}{27} : \frac{2}{43} = \frac{2}{27} \cdot \frac{43}{2} = \frac{1 \cdot 43}{27 \cdot 1} = 1 \frac{16}{27}$$

$$\textcircled{5} \quad \text{a) } \frac{2}{15} : \frac{3}{20} = \frac{2}{15} \cdot \frac{20}{3} = \frac{2 \cdot 4}{3 \cdot 3} = \frac{8}{9} \quad \text{b) } \frac{2}{23} : \frac{4}{13} = \frac{2}{23} \cdot \frac{13}{4} = \frac{1 \cdot 13}{23 \cdot 2} = \frac{13}{46}$$

$$\text{c) } \frac{2}{33} : \frac{1}{42} = \frac{2}{33} \cdot \frac{42}{1} = \frac{2 \cdot 14}{11 \cdot 1} = 2 \frac{6}{11} \quad \text{d) } \frac{7}{8} : \frac{3}{4} = \frac{7}{8} \cdot \frac{4}{3} = \frac{7 \cdot 1}{2 \cdot 3} = 1 \frac{1}{6}$$