

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

① a)  $\frac{3}{4} : \frac{11}{24} =$

b)  $\frac{2}{5} : \frac{7}{25} =$

c)  $\frac{1}{28} : \frac{3}{22} =$

d)  $\frac{2}{17} : \frac{4}{13} =$

② a)  $\frac{5}{39} : \frac{1}{9} =$

b)  $\frac{2}{3} : \frac{13}{36} =$

c)  $\frac{3}{40} : \frac{2}{25} =$

d)  $\frac{19}{26} : \frac{1}{4} =$

③ a)  $\frac{5}{18} : \frac{3}{16} =$

b)  $\frac{1}{27} : \frac{2}{45} =$

c)  $\frac{1}{3} : \frac{13}{15} =$

d)  $\frac{3}{17} : \frac{3}{20} =$

④ a)  $\frac{3}{4} : \frac{5}{28} =$

b)  $\frac{3}{14} : \frac{6}{23} =$

c)  $\frac{1}{6} : \frac{13}{38} =$

d)  $\frac{7}{8} : \frac{1}{8} =$

⑤ a)  $\frac{2}{9} : \frac{2}{17} =$

b)  $\frac{1}{4} : \frac{19}{28} =$

c)  $\frac{2}{7} : \frac{14}{43} =$

d)  $\frac{1}{34} : \frac{1}{38} =$

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

$$\textcircled{1} \quad \text{a) } \frac{3}{4} : \frac{11}{24} = \frac{3}{4} \cdot \frac{24}{11} = \frac{3 \cdot 6}{1 \cdot 11} = 1 \frac{7}{11} \quad \text{b) } \frac{2}{5} : \frac{7}{25} = \frac{2}{5} \cdot \frac{25}{7} = \frac{2 \cdot 5}{1 \cdot 7} = 1 \frac{3}{7}$$

$$\text{c) } \frac{1}{28} : \frac{3}{22} = \frac{1}{28} \cdot \frac{22}{3} = \frac{1 \cdot 11}{14 \cdot 3} = \frac{11}{42} \quad \text{d) } \frac{2}{17} : \frac{4}{13} = \frac{2}{17} \cdot \frac{13}{4} = \frac{1 \cdot 13}{17 \cdot 2} = \frac{13}{34}$$

$$\textcircled{2} \quad \text{a) } \frac{5}{39} : \frac{1}{9} = \frac{5}{39} \cdot \frac{9}{1} = \frac{5 \cdot 3}{13 \cdot 1} = 1 \frac{2}{13} \quad \text{b) } \frac{2}{3} : \frac{13}{36} = \frac{2}{3} \cdot \frac{36}{13} = \frac{2 \cdot 12}{1 \cdot 13} = 1 \frac{11}{13}$$

$$\text{c) } \frac{3}{40} : \frac{2}{25} = \frac{3}{40} \cdot \frac{25}{2} = \frac{3 \cdot 5}{8 \cdot 2} = \frac{15}{16} \quad \text{d) } \frac{19}{26} : \frac{1}{4} = \frac{19}{26} \cdot \frac{4}{1} = \frac{19 \cdot 2}{13 \cdot 1} = 2 \frac{12}{13}$$

$$\textcircled{3} \quad \text{a) } \frac{5}{18} : \frac{3}{16} = \frac{5}{18} \cdot \frac{16}{3} = \frac{5 \cdot 8}{9 \cdot 3} = 1 \frac{13}{27} \quad \text{b) } \frac{1}{27} : \frac{2}{45} = \frac{1}{27} \cdot \frac{45}{2} = \frac{1 \cdot 5}{3 \cdot 2} = \frac{5}{6}$$

$$\text{c) } \frac{1}{3} : \frac{13}{15} = \frac{1}{3} \cdot \frac{15}{13} = \frac{1 \cdot 5}{1 \cdot 13} = \frac{5}{13} \quad \text{d) } \frac{3}{17} : \frac{3}{20} = \frac{3}{17} \cdot \frac{20}{3} = \frac{1 \cdot 20}{17 \cdot 1} = 1 \frac{3}{17}$$

$$\textcircled{4} \quad \text{a) } \frac{3}{4} : \frac{5}{28} = \frac{3}{4} \cdot \frac{28}{5} = \frac{3 \cdot 7}{1 \cdot 5} = 4 \frac{1}{5} \quad \text{b) } \frac{3}{14} : \frac{6}{23} = \frac{3}{14} \cdot \frac{23}{6} = \frac{1 \cdot 23}{14 \cdot 2} = \frac{23}{28}$$

$$\text{c) } \frac{1}{6} : \frac{13}{38} = \frac{1}{6} \cdot \frac{38}{13} = \frac{1 \cdot 19}{3 \cdot 13} = \frac{19}{39} \quad \text{d) } \frac{7}{8} : \frac{1}{8} = \frac{7}{8} \cdot \frac{8}{1} = \frac{7 \cdot 1}{1 \cdot 1} = 7$$

$$\textcircled{5} \quad \text{a) } \frac{2}{9} : \frac{2}{17} = \frac{2}{9} \cdot \frac{17}{2} = \frac{1 \cdot 17}{9 \cdot 1} = 1 \frac{8}{9} \quad \text{b) } \frac{1}{4} : \frac{19}{28} = \frac{1}{4} \cdot \frac{28}{19} = \frac{1 \cdot 7}{1 \cdot 19} = \frac{7}{19}$$

$$\text{c) } \frac{2}{7} : \frac{14}{43} = \frac{2}{7} \cdot \frac{43}{14} = \frac{1 \cdot 43}{7 \cdot 7} = \frac{43}{49} \quad \text{d) } \frac{1}{34} : \frac{1}{38} = \frac{1}{34} \cdot \frac{38}{1} = \frac{1 \cdot 19}{17 \cdot 1} = 1 \frac{2}{17}$$