

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

① a) $\frac{4}{5} : \frac{1}{5} =$

b) $\frac{2}{21} : \frac{4}{35} =$

c) $\frac{5}{6} : \frac{9}{10} =$

d) $\frac{2}{3} : \frac{18}{29} =$

② a) $\frac{4}{11} : \frac{8}{23} =$

b) $\frac{1}{18} : \frac{5}{28} =$

c) $\frac{5}{42} : \frac{2}{15} =$

d) $\frac{3}{5} : \frac{9}{19} =$

③ a) $\frac{7}{10} : \frac{7}{12} =$

b) $\frac{2}{11} : \frac{5}{22} =$

c) $\frac{26}{29} : \frac{2}{3} =$

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

④ a) $\frac{1}{12} : \frac{8}{27} =$

b) $\frac{9}{38} : \frac{1}{4} =$

c) $\frac{10}{17} : \frac{2}{9} =$

d) $\frac{8}{11} : \frac{7}{11} =$

⑤ a) $\frac{1}{3} : \frac{13}{21} =$

b) $\frac{1}{22} : \frac{1}{6} =$

c) $\frac{7}{12} : \frac{7}{13} =$

d) $\frac{7}{15} : \frac{4}{9} =$

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

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

$$\text{c) } \frac{5}{6} : \frac{9}{10} = \frac{5}{6} \cdot \frac{10}{9} = \frac{5 \cdot 5}{3 \cdot 9} = \frac{25}{27} \quad \text{d) } \frac{2}{3} : \frac{18}{29} = \frac{2}{3} \cdot \frac{29}{18} = \frac{1 \cdot 29}{3 \cdot 9} = 1 \frac{2}{27}$$

$$\textcircled{2} \quad \text{a) } \frac{4}{11} : \frac{8}{23} = \frac{4}{11} \cdot \frac{23}{8} = \frac{1 \cdot 23}{11 \cdot 2} = 1 \frac{1}{22} \quad \text{b) } \frac{1}{18} : \frac{5}{28} = \frac{1}{18} \cdot \frac{28}{5} = \frac{1 \cdot 14}{9 \cdot 5} = \frac{14}{45}$$

$$\text{c) } \frac{5}{42} : \frac{2}{15} = \frac{5}{42} \cdot \frac{15}{2} = \frac{5 \cdot 5}{14 \cdot 2} = \frac{25}{28} \quad \text{d) } \frac{3}{5} : \frac{9}{19} = \frac{3}{5} \cdot \frac{19}{9} = \frac{1 \cdot 19}{5 \cdot 3} = 1 \frac{4}{15}$$

$$\textcircled{3} \quad \text{a) } \frac{7}{10} : \frac{7}{12} = \frac{7}{10} \cdot \frac{12}{7} = \frac{1 \cdot 6}{5 \cdot 1} = 1 \frac{1}{5} \quad \text{b) } \frac{2}{11} : \frac{5}{22} = \frac{2}{11} \cdot \frac{22}{5} = \frac{2 \cdot 2}{1 \cdot 5} = \frac{4}{5}$$

$$\text{c) } \frac{26}{29} : \frac{2}{3} = \frac{26}{29} \cdot \frac{3}{2} = \frac{13 \cdot 3}{29 \cdot 1} = 1 \frac{10}{29} \quad \text{d) } \frac{4}{23} : \frac{3}{23} = \frac{4}{23} \cdot \frac{23}{3} = \frac{4 \cdot 1}{1 \cdot 3} = 1 \frac{1}{3}$$

$$\textcircled{4} \quad \text{a) } \frac{1}{12} : \frac{8}{27} = \frac{1}{12} \cdot \frac{27}{8} = \frac{1 \cdot 9}{4 \cdot 8} = \frac{9}{32} \quad \text{b) } \frac{9}{38} : \frac{1}{4} = \frac{9}{38} \cdot \frac{4}{1} = \frac{9 \cdot 2}{19 \cdot 1} = \frac{18}{19}$$

$$\text{c) } \frac{10}{17} : \frac{2}{9} = \frac{10}{17} \cdot \frac{9}{2} = \frac{5 \cdot 9}{17 \cdot 1} = 2 \frac{11}{17} \quad \text{d) } \frac{8}{11} : \frac{7}{11} = \frac{8}{11} \cdot \frac{11}{7} = \frac{8 \cdot 1}{1 \cdot 7} = 1 \frac{1}{7}$$

$$\textcircled{5} \quad \text{a) } \frac{1}{3} : \frac{13}{21} = \frac{1}{3} \cdot \frac{21}{13} = \frac{1 \cdot 7}{1 \cdot 13} = \frac{7}{13} \quad \text{b) } \frac{1}{22} : \frac{1}{6} = \frac{1}{22} \cdot \frac{6}{1} = \frac{1 \cdot 3}{11 \cdot 1} = \frac{3}{11}$$

$$\text{c) } \frac{7}{12} : \frac{7}{13} = \frac{7}{12} \cdot \frac{13}{7} = \frac{1 \cdot 13}{12 \cdot 1} = 1 \frac{1}{12} \quad \text{d) } \frac{7}{15} : \frac{4}{9} = \frac{7}{15} \cdot \frac{9}{4} = \frac{7 \cdot 3}{5 \cdot 4} = 1 \frac{1}{20}$$