

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

① a) $\frac{22}{23} : \frac{2}{3} =$

b) $\frac{5}{24} : \frac{1}{20} =$

c) $\frac{2}{15} : \frac{6}{7} =$

d) $\frac{20}{43} : \frac{2}{5} =$

② a) $\frac{1}{30} : \frac{1}{35} =$

b) $\frac{3}{16} : \frac{6}{11} =$

c) $\frac{3}{14} : \frac{5}{28} =$

d) $\frac{11}{40} : \frac{1}{6} =$

③ a) $\frac{1}{4} : \frac{17}{32} =$

b) $\frac{3}{10} : \frac{3}{20} =$

c) $\frac{4}{15} : \frac{5}{21} =$

d) $\frac{2}{31} : \frac{2}{9} =$

④ a) $\frac{1}{7} : \frac{1}{35} =$

b) $\frac{1}{10} : \frac{3}{44} =$

c) $\frac{3}{11} : \frac{9}{25} =$

d) $\frac{7}{9} : \frac{5}{12} =$

⑤ a) $\frac{22}{27} : \frac{1}{3} =$

b) $\frac{2}{5} : \frac{16}{19} =$

c) $\frac{2}{7} : \frac{4}{23} =$

d) $\frac{5}{6} : \frac{11}{16} =$

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

$$\textcircled{1} \quad \text{a) } \frac{22}{23} : \frac{2}{3} = \frac{22}{23} \cdot \frac{3}{2} = \frac{11 \cdot 3}{23 \cdot 1} = 1 \frac{10}{23} \quad \text{b) } \frac{5}{24} : \frac{1}{20} = \frac{5}{24} \cdot \frac{20}{1} = \frac{5 \cdot 5}{6 \cdot 1} = 4 \frac{1}{6}$$

$$\text{c) } \frac{2}{15} : \frac{6}{7} = \frac{2}{15} \cdot \frac{7}{6} = \frac{1 \cdot 7}{15 \cdot 3} = \frac{7}{45} \quad \text{d) } \frac{20}{43} : \frac{2}{5} = \frac{20}{43} \cdot \frac{5}{2} = \frac{10 \cdot 5}{43 \cdot 1} = 1 \frac{7}{43}$$

$$\textcircled{2} \quad \text{a) } \frac{1}{30} : \frac{1}{35} = \frac{1}{30} \cdot \frac{35}{1} = \frac{1 \cdot 7}{6 \cdot 1} = 1 \frac{1}{6} \quad \text{b) } \frac{3}{16} : \frac{6}{11} = \frac{3}{16} \cdot \frac{11}{6} = \frac{1 \cdot 11}{16 \cdot 2} = \frac{11}{32}$$

$$\text{c) } \frac{3}{14} : \frac{5}{28} = \frac{3}{14} \cdot \frac{28}{5} = \frac{3 \cdot 2}{1 \cdot 5} = 1 \frac{1}{5} \quad \text{d) } \frac{11}{40} : \frac{1}{6} = \frac{11}{40} \cdot \frac{6}{1} = \frac{11 \cdot 3}{20 \cdot 1} = 1 \frac{13}{20}$$

$$\textcircled{3} \quad \text{a) } \frac{1}{4} : \frac{17}{32} = \frac{1}{4} \cdot \frac{32}{17} = \frac{1 \cdot 8}{1 \cdot 17} = \frac{8}{17} \quad \text{b) } \frac{3}{10} : \frac{3}{20} = \frac{3}{10} \cdot \frac{20}{3} = \frac{1 \cdot 2}{1 \cdot 1} = 2$$

$$\text{c) } \frac{4}{15} : \frac{5}{21} = \frac{4}{15} \cdot \frac{21}{5} = \frac{4 \cdot 7}{5 \cdot 5} = 1 \frac{3}{25} \quad \text{d) } \frac{2}{31} : \frac{2}{9} = \frac{2}{31} \cdot \frac{9}{2} = \frac{1 \cdot 9}{31 \cdot 1} = \frac{9}{31}$$

$$\textcircled{4} \quad \text{a) } \frac{1}{7} : \frac{1}{35} = \frac{1}{7} \cdot \frac{35}{1} = \frac{1 \cdot 5}{1 \cdot 1} = 5 \quad \text{b) } \frac{1}{10} : \frac{3}{44} = \frac{1}{10} \cdot \frac{44}{3} = \frac{1 \cdot 22}{5 \cdot 3} = 1 \frac{7}{15}$$

$$\text{c) } \frac{3}{11} : \frac{9}{25} = \frac{3}{11} \cdot \frac{25}{9} = \frac{1 \cdot 25}{11 \cdot 3} = \frac{25}{33} \quad \text{d) } \frac{7}{9} : \frac{5}{12} = \frac{7}{9} \cdot \frac{12}{5} = \frac{7 \cdot 4}{3 \cdot 5} = 1 \frac{13}{15}$$

$$\textcircled{5} \quad \text{a) } \frac{22}{27} : \frac{1}{3} = \frac{22}{27} \cdot \frac{3}{1} = \frac{22 \cdot 1}{9 \cdot 1} = 2 \frac{4}{9} \quad \text{b) } \frac{2}{5} : \frac{16}{19} = \frac{2}{5} \cdot \frac{19}{16} = \frac{1 \cdot 19}{5 \cdot 8} = \frac{19}{40}$$

$$\text{c) } \frac{2}{7} : \frac{4}{23} = \frac{2}{7} \cdot \frac{23}{4} = \frac{1 \cdot 23}{7 \cdot 2} = 1 \frac{9}{14} \quad \text{d) } \frac{5}{6} : \frac{11}{16} = \frac{5}{6} \cdot \frac{16}{11} = \frac{5 \cdot 8}{3 \cdot 11} = 1 \frac{7}{33}$$