

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

① a) $\frac{1}{6} : \frac{7}{10} =$

b) $\frac{2}{45} : \frac{1}{30} =$

c) $\frac{6}{19} : \frac{2}{9} =$

d) $\frac{1}{32} : \frac{3}{44} =$

② a) $\frac{5}{6} : \frac{1}{16} =$

b) $\frac{3}{4} : \frac{19}{26} =$

c) $\frac{1}{8} : \frac{11}{42} =$

d) $\frac{1}{7} : \frac{1}{14} =$

③ a) $\frac{2}{21} : \frac{2}{39} =$

b) $\frac{3}{16} : \frac{6}{19} =$

c) $\frac{7}{20} : \frac{3}{8} =$

d) $\frac{3}{40} : \frac{1}{25} =$

④ a) $\frac{6}{13} : \frac{4}{11} =$

b) $\frac{1}{12} : \frac{3}{14} =$

c) $\frac{1}{4} : \frac{7}{32} =$

d) $\frac{1}{18} : \frac{1}{20} =$

⑤ a) $\frac{2}{13} : \frac{2}{11} =$

b) $\frac{3}{31} : \frac{3}{22} =$

c) $\frac{7}{12} : \frac{1}{10} =$

d) $\frac{2}{5} : \frac{4}{27} =$

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

$$\textcircled{1} \quad \text{a) } \frac{1}{6} : \frac{7}{10} = \frac{1}{6} \cdot \frac{10}{7} = \frac{1 \cdot 5}{3 \cdot 7} = \frac{5}{21} \quad \text{b) } \frac{2}{45} : \frac{1}{30} = \frac{2}{45} \cdot \frac{30}{1} = \frac{2 \cdot 2}{3 \cdot 1} = 1 \frac{1}{3}$$

$$\text{c) } \frac{6}{19} : \frac{2}{9} = \frac{6}{19} \cdot \frac{9}{2} = \frac{3 \cdot 9}{19 \cdot 1} = 1 \frac{8}{19} \quad \text{d) } \frac{1}{32} : \frac{3}{44} = \frac{1}{32} \cdot \frac{44}{3} = \frac{1 \cdot 11}{8 \cdot 3} = \frac{11}{24}$$

$$\textcircled{2} \quad \text{a) } \frac{5}{6} : \frac{1}{16} = \frac{5}{6} \cdot \frac{16}{1} = \frac{5 \cdot 8}{3 \cdot 1} = 13 \frac{1}{3} \quad \text{b) } \frac{3}{4} : \frac{19}{26} = \frac{3}{4} \cdot \frac{26}{19} = \frac{3 \cdot 13}{2 \cdot 19} = 1 \frac{1}{38}$$

$$\text{c) } \frac{1}{8} : \frac{11}{42} = \frac{1}{8} \cdot \frac{42}{11} = \frac{1 \cdot 21}{4 \cdot 11} = \frac{21}{44} \quad \text{d) } \frac{1}{7} : \frac{1}{14} = \frac{1}{7} \cdot \frac{14}{1} = \frac{1 \cdot 2}{1 \cdot 1} = 2$$

$$\textcircled{3} \quad \text{a) } \frac{2}{21} : \frac{2}{39} = \frac{2}{21} \cdot \frac{39}{2} = \frac{1 \cdot 13}{7 \cdot 1} = 1 \frac{6}{7} \quad \text{b) } \frac{3}{16} : \frac{6}{19} = \frac{3}{16} \cdot \frac{19}{6} = \frac{1 \cdot 19}{16 \cdot 2} = \frac{19}{32}$$

$$\text{c) } \frac{7}{20} : \frac{3}{8} = \frac{7}{20} \cdot \frac{8}{3} = \frac{7 \cdot 2}{5 \cdot 3} = \frac{14}{15} \quad \text{d) } \frac{3}{40} : \frac{1}{25} = \frac{3}{40} \cdot \frac{25}{1} = \frac{3 \cdot 5}{8 \cdot 1} = 1 \frac{7}{8}$$

$$\textcircled{4} \quad \text{a) } \frac{6}{13} : \frac{4}{11} = \frac{6}{13} \cdot \frac{11}{4} = \frac{3 \cdot 11}{13 \cdot 2} = 1 \frac{7}{26} \quad \text{b) } \frac{1}{12} : \frac{3}{14} = \frac{1}{12} \cdot \frac{14}{3} = \frac{1 \cdot 7}{6 \cdot 3} = \frac{7}{18}$$

$$\text{c) } \frac{1}{4} : \frac{7}{32} = \frac{1}{4} \cdot \frac{32}{7} = \frac{1 \cdot 8}{1 \cdot 7} = 1 \frac{1}{7} \quad \text{d) } \frac{1}{18} : \frac{1}{20} = \frac{1}{18} \cdot \frac{20}{1} = \frac{1 \cdot 10}{9 \cdot 1} = 1 \frac{1}{9}$$

$$\textcircled{5} \quad \text{a) } \frac{2}{13} : \frac{2}{11} = \frac{2}{13} \cdot \frac{11}{2} = \frac{1 \cdot 11}{13 \cdot 1} = \frac{11}{13} \quad \text{b) } \frac{3}{31} : \frac{3}{22} = \frac{3}{31} \cdot \frac{22}{3} = \frac{1 \cdot 22}{31 \cdot 1} = \frac{22}{31}$$

$$\text{c) } \frac{7}{12} : \frac{1}{10} = \frac{7}{12} \cdot \frac{10}{1} = \frac{7 \cdot 5}{6 \cdot 1} = 5 \frac{5}{6} \quad \text{d) } \frac{2}{5} : \frac{4}{27} = \frac{2}{5} \cdot \frac{27}{4} = \frac{1 \cdot 27}{5 \cdot 2} = 2 \frac{7}{10}$$