

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

① a) $\frac{1}{4} : \frac{11}{20} =$

b) $\frac{2}{21} : \frac{1}{39} =$

c) $\frac{9}{11} : \frac{2}{11} =$

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

② a) $\frac{3}{32} : \frac{3}{29} =$

b) $\frac{1}{3} : \frac{11}{42} =$

c) $\frac{2}{33} : \frac{2}{37} =$

d) $\frac{1}{14} : \frac{6}{35} =$

③ a) $\frac{6}{23} : \frac{3}{5} =$

b) $\frac{1}{30} : \frac{1}{36} =$

c) $\frac{2}{3} : \frac{13}{42} =$

d) $\frac{7}{16} : \frac{5}{6} =$

④ a) $\frac{1}{4} : \frac{21}{26} =$

b) $\frac{2}{5} : \frac{6}{19} =$

c) $\frac{3}{7} : \frac{2}{21} =$

d) $\frac{1}{3} : \frac{5}{9} =$

⑤ a) $\frac{6}{23} : \frac{4}{13} =$

b) $\frac{1}{8} : \frac{1}{44} =$

c) $\frac{1}{5} : \frac{3}{35} =$

d) $\frac{10}{41} : \frac{2}{3} =$

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

$$\textcircled{1} \quad \text{a) } \frac{1}{4} : \frac{11}{20} = \frac{1}{4} \cdot \frac{20}{11} = \frac{1 \cdot 5}{1 \cdot 11} = \frac{5}{11} \quad \text{b) } \frac{2}{21} : \frac{1}{39} = \frac{2}{21} \cdot \frac{39}{1} = \frac{2 \cdot 13}{7 \cdot 1} = 3 \frac{5}{7}$$

$$\text{c) } \frac{9}{11} : \frac{2}{11} = \frac{9}{11} \cdot \frac{11}{2} = \frac{9 \cdot 1}{1 \cdot 2} = 4 \frac{1}{2} \quad \text{d) } \frac{2}{23} : \frac{4}{7} = \frac{2}{23} \cdot \frac{7}{4} = \frac{1 \cdot 7}{23 \cdot 2} = \frac{7}{46}$$

$$\textcircled{2} \quad \text{a) } \frac{3}{32} : \frac{3}{29} = \frac{3}{32} \cdot \frac{29}{3} = \frac{1 \cdot 29}{32 \cdot 1} = \frac{29}{32} \quad \text{b) } \frac{1}{3} : \frac{11}{42} = \frac{1}{3} \cdot \frac{42}{11} = \frac{1 \cdot 14}{1 \cdot 11} = 1 \frac{3}{11}$$

$$\text{c) } \frac{2}{33} : \frac{2}{37} = \frac{2}{33} \cdot \frac{37}{2} = \frac{1 \cdot 37}{33 \cdot 1} = 1 \frac{4}{33} \quad \text{d) } \frac{1}{14} : \frac{6}{35} = \frac{1}{14} \cdot \frac{35}{6} = \frac{1 \cdot 5}{2 \cdot 6} = \frac{5}{12}$$

$$\textcircled{3} \quad \text{a) } \frac{6}{23} : \frac{3}{5} = \frac{6}{23} \cdot \frac{5}{3} = \frac{2 \cdot 5}{23 \cdot 1} = \frac{10}{23} \quad \text{b) } \frac{1}{30} : \frac{1}{36} = \frac{1}{30} \cdot \frac{36}{1} = \frac{1 \cdot 6}{5 \cdot 1} = 1 \frac{1}{5}$$

$$\text{c) } \frac{2}{3} : \frac{13}{42} = \frac{2}{3} \cdot \frac{42}{13} = \frac{2 \cdot 14}{1 \cdot 13} = 2 \frac{2}{13} \quad \text{d) } \frac{7}{16} : \frac{5}{6} = \frac{7}{16} \cdot \frac{6}{5} = \frac{7 \cdot 3}{8 \cdot 5} = \frac{21}{40}$$

$$\textcircled{4} \quad \text{a) } \frac{1}{4} : \frac{21}{26} = \frac{1}{4} \cdot \frac{26}{21} = \frac{1 \cdot 13}{2 \cdot 21} = \frac{13}{42} \quad \text{b) } \frac{2}{5} : \frac{6}{19} = \frac{2}{5} \cdot \frac{19}{6} = \frac{1 \cdot 19}{5 \cdot 3} = 1 \frac{4}{15}$$

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

$$\textcircled{5} \quad \text{a) } \frac{6}{23} : \frac{4}{13} = \frac{6}{23} \cdot \frac{13}{4} = \frac{3 \cdot 13}{23 \cdot 2} = \frac{39}{46} \quad \text{b) } \frac{1}{8} : \frac{1}{44} = \frac{1}{8} \cdot \frac{44}{1} = \frac{1 \cdot 11}{2 \cdot 1} = 5 \frac{1}{2}$$

$$\text{c) } \frac{1}{5} : \frac{3}{35} = \frac{1}{5} \cdot \frac{35}{3} = \frac{1 \cdot 7}{1 \cdot 3} = 2 \frac{1}{3} \quad \text{d) } \frac{10}{41} : \frac{2}{3} = \frac{10}{41} \cdot \frac{3}{2} = \frac{5 \cdot 3}{41 \cdot 1} = \frac{15}{41}$$