

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

① a) $\frac{11}{12} : \frac{8}{9} =$

b) $\frac{4}{7} : \frac{2}{11} =$

c) $\frac{1}{10} : \frac{6}{35} =$

d) $\frac{2}{5} : \frac{10}{37} =$

② a) $\frac{8}{21} : \frac{1}{6} =$

b) $\frac{11}{32} : \frac{3}{8} =$

c) $\frac{3}{4} : \frac{19}{28} =$

d) $\frac{2}{35} : \frac{1}{42} =$

③ a) $\frac{12}{37} : \frac{2}{3} =$

b) $\frac{1}{10} : \frac{7}{22} =$

c) $\frac{5}{14} : \frac{1}{14} =$

d) $\frac{3}{11} : \frac{6}{29} =$

④ a) $\frac{1}{9} : \frac{2}{9} =$

b) $\frac{2}{25} : \frac{3}{10} =$

c) $\frac{12}{35} : \frac{1}{7} =$

d) $\frac{2}{3} : \frac{20}{41} =$

⑤ a) $\frac{7}{12} : \frac{7}{11} =$

b) $\frac{3}{8} : \frac{9}{25} =$

c) $\frac{3}{4} : \frac{15}{29} =$

d) $\frac{2}{9} : \frac{7}{27} =$

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

$$\textcircled{1} \quad \text{a) } \frac{11}{12} : \frac{8}{9} = \frac{11}{12} \cdot \frac{9}{8} = \frac{11 \cdot 3}{4 \cdot 8} = 1 \frac{1}{32} \quad \text{b) } \frac{4}{7} : \frac{2}{11} = \frac{4}{7} \cdot \frac{11}{2} = \frac{2 \cdot 11}{7 \cdot 1} = 3 \frac{1}{7}$$

$$\text{c) } \frac{1}{10} : \frac{6}{35} = \frac{1}{10} \cdot \frac{35}{6} = \frac{1 \cdot 7}{2 \cdot 6} = \frac{7}{12} \quad \text{d) } \frac{2}{5} : \frac{10}{37} = \frac{2}{5} \cdot \frac{37}{10} = \frac{1 \cdot 37}{5 \cdot 5} = 1 \frac{12}{25}$$

$$\textcircled{2} \quad \text{a) } \frac{8}{21} : \frac{1}{6} = \frac{8}{21} \cdot \frac{6}{1} = \frac{8 \cdot 2}{7 \cdot 1} = 2 \frac{2}{7} \quad \text{b) } \frac{11}{32} : \frac{3}{8} = \frac{11}{32} \cdot \frac{8}{3} = \frac{11 \cdot 1}{4 \cdot 3} = \frac{11}{12}$$

$$\text{c) } \frac{3}{4} : \frac{19}{28} = \frac{3}{4} \cdot \frac{28}{19} = \frac{3 \cdot 7}{1 \cdot 19} = 1 \frac{2}{19} \quad \text{d) } \frac{2}{35} : \frac{1}{42} = \frac{2}{35} \cdot \frac{42}{1} = \frac{2 \cdot 6}{5 \cdot 1} = 2 \frac{2}{5}$$

$$\textcircled{3} \quad \text{a) } \frac{12}{37} : \frac{2}{3} = \frac{12}{37} \cdot \frac{3}{2} = \frac{6 \cdot 3}{37 \cdot 1} = \frac{18}{37} \quad \text{b) } \frac{1}{10} : \frac{7}{22} = \frac{1}{10} \cdot \frac{22}{7} = \frac{1 \cdot 11}{5 \cdot 7} = \frac{11}{35}$$

$$\text{c) } \frac{5}{14} : \frac{1}{14} = \frac{5}{14} \cdot \frac{14}{1} = \frac{5 \cdot 1}{1 \cdot 1} = 5 \quad \text{d) } \frac{3}{11} : \frac{6}{29} = \frac{3}{11} \cdot \frac{29}{6} = \frac{1 \cdot 29}{11 \cdot 2} = 1 \frac{7}{22}$$

$$\textcircled{4} \quad \text{a) } \frac{1}{9} : \frac{2}{9} = \frac{1}{9} \cdot \frac{9}{2} = \frac{1 \cdot 1}{1 \cdot 2} = \frac{1}{2} \quad \text{b) } \frac{2}{25} : \frac{3}{10} = \frac{2}{25} \cdot \frac{10}{3} = \frac{2 \cdot 2}{5 \cdot 3} = \frac{4}{15}$$

$$\text{c) } \frac{12}{35} : \frac{1}{7} = \frac{12}{35} \cdot \frac{7}{1} = \frac{12 \cdot 1}{5 \cdot 1} = 2 \frac{2}{5} \quad \text{d) } \frac{2}{3} : \frac{20}{41} = \frac{2}{3} \cdot \frac{41}{20} = \frac{1 \cdot 41}{3 \cdot 10} = 1 \frac{11}{30}$$

$$\textcircled{5} \quad \text{a) } \frac{7}{12} : \frac{7}{11} = \frac{7}{12} \cdot \frac{11}{7} = \frac{1 \cdot 11}{12 \cdot 1} = \frac{11}{12} \quad \text{b) } \frac{3}{8} : \frac{9}{25} = \frac{3}{8} \cdot \frac{25}{9} = \frac{1 \cdot 25}{8 \cdot 3} = 1 \frac{1}{24}$$

$$\text{c) } \frac{3}{4} : \frac{15}{29} = \frac{3}{4} \cdot \frac{29}{15} = \frac{1 \cdot 29}{4 \cdot 5} = 1 \frac{9}{20} \quad \text{d) } \frac{2}{9} : \frac{7}{27} = \frac{2}{9} \cdot \frac{27}{7} = \frac{2 \cdot 3}{1 \cdot 7} = \frac{6}{7}$$