

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

① a) $\frac{2}{13} : \frac{4}{23} =$

b) $\frac{5}{21} : \frac{1}{18} =$

c) $\frac{30}{37} : \frac{2}{3} =$

d) $\frac{4}{7} : \frac{12}{17} =$

② a) $\frac{1}{10} : \frac{3}{5} =$

b) $\frac{7}{39} : \frac{1}{6} =$

c) $\frac{3}{8} : \frac{5}{14} =$

d) $\frac{4}{21} : \frac{4}{11} =$

③ a) $\frac{1}{12} : \frac{7}{38} =$

b) $\frac{1}{15} : \frac{1}{15} =$

c) $\frac{5}{6} : \frac{10}{17} =$

d) $\frac{1}{30} : \frac{2}{33} =$

④ a) $\frac{6}{29} : \frac{3}{4} =$

b) $\frac{6}{7} : \frac{5}{14} =$

c) $\frac{2}{3} : \frac{22}{37} =$

d) $\frac{1}{10} : \frac{7}{34} =$

⑤ a) $\frac{5}{8} : \frac{3}{16} =$

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

c) $\frac{2}{41} : \frac{2}{31} =$

d) $\frac{1}{22} : \frac{4}{33} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{13} : \frac{4}{23} = \frac{2}{13} \cdot \frac{23}{4} = \frac{1 \cdot 23}{13 \cdot 2} = \frac{23}{26} \quad \text{b) } \frac{5}{21} : \frac{1}{18} = \frac{5}{21} \cdot \frac{18}{1} = \frac{5 \cdot 6}{7 \cdot 1} = 4 \frac{2}{7}$$

$$\text{c) } \frac{30}{37} : \frac{2}{3} = \frac{30}{37} \cdot \frac{3}{2} = \frac{15 \cdot 3}{37 \cdot 1} = 1 \frac{8}{37} \quad \text{d) } \frac{4}{7} : \frac{12}{17} = \frac{4}{7} \cdot \frac{17}{12} = \frac{1 \cdot 17}{7 \cdot 3} = \frac{17}{21}$$

$$\textcircled{2} \quad \text{a) } \frac{1}{10} : \frac{3}{5} = \frac{1}{10} \cdot \frac{5}{3} = \frac{1 \cdot 1}{2 \cdot 3} = \frac{1}{6} \quad \text{b) } \frac{7}{39} : \frac{1}{6} = \frac{7}{39} \cdot \frac{6}{1} = \frac{7 \cdot 2}{13 \cdot 1} = 1 \frac{1}{13}$$

$$\text{c) } \frac{3}{8} : \frac{5}{14} = \frac{3}{8} \cdot \frac{14}{5} = \frac{3 \cdot 7}{4 \cdot 5} = 1 \frac{1}{20} \quad \text{d) } \frac{4}{21} : \frac{4}{11} = \frac{4}{21} \cdot \frac{11}{4} = \frac{1 \cdot 11}{21 \cdot 1} = \frac{11}{21}$$

$$\textcircled{3} \quad \text{a) } \frac{1}{12} : \frac{7}{38} = \frac{1}{12} \cdot \frac{38}{7} = \frac{1 \cdot 19}{6 \cdot 7} = \frac{19}{42} \quad \text{b) } \frac{1}{15} : \frac{1}{15} = \frac{1}{15} \cdot \frac{15}{1} = \frac{1 \cdot 1}{1 \cdot 1} = 1$$

$$\text{c) } \frac{5}{6} : \frac{10}{17} = \frac{5}{6} \cdot \frac{17}{10} = \frac{1 \cdot 17}{6 \cdot 2} = 1 \frac{5}{12} \quad \text{d) } \frac{1}{30} : \frac{2}{33} = \frac{1}{30} \cdot \frac{33}{2} = \frac{1 \cdot 11}{10 \cdot 2} = \frac{11}{20}$$

$$\textcircled{4} \quad \text{a) } \frac{6}{29} : \frac{3}{4} = \frac{6}{29} \cdot \frac{4}{3} = \frac{2 \cdot 4}{29 \cdot 1} = \frac{8}{29} \quad \text{b) } \frac{6}{7} : \frac{5}{14} = \frac{6}{7} \cdot \frac{14}{5} = \frac{6 \cdot 2}{1 \cdot 5} = 2 \frac{2}{5}$$

$$\text{c) } \frac{2}{3} : \frac{22}{37} = \frac{2}{3} \cdot \frac{37}{22} = \frac{1 \cdot 37}{3 \cdot 11} = 1 \frac{4}{33} \quad \text{d) } \frac{1}{10} : \frac{7}{34} = \frac{1}{10} \cdot \frac{34}{7} = \frac{1 \cdot 17}{5 \cdot 7} = \frac{17}{35}$$

$$\textcircled{5} \quad \text{a) } \frac{5}{8} : \frac{3}{16} = \frac{5}{8} \cdot \frac{16}{3} = \frac{5 \cdot 2}{1 \cdot 3} = 3 \frac{1}{3} \quad \text{b) } \frac{1}{44} : \frac{1}{44} = \frac{1}{44} \cdot \frac{44}{1} = \frac{1 \cdot 1}{1 \cdot 1} = 1$$

$$\text{c) } \frac{2}{41} : \frac{2}{31} = \frac{2}{41} \cdot \frac{31}{2} = \frac{1 \cdot 31}{41 \cdot 1} = \frac{31}{41} \quad \text{d) } \frac{1}{22} : \frac{4}{33} = \frac{1}{22} \cdot \frac{33}{4} = \frac{1 \cdot 3}{2 \cdot 4} = \frac{3}{8}$$