

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

① a) $\frac{2}{41} : \frac{2}{23} =$

b) $\frac{3}{38} : \frac{1}{32} =$

c) $\frac{9}{13} : \frac{3}{7} =$

d) $\frac{14}{37} : \frac{2}{3} =$

② a) $\frac{3}{5} : \frac{18}{23} =$

b) $\frac{2}{21} : \frac{1}{18} =$

c) $\frac{11}{12} : \frac{4}{9} =$

d) $\frac{1}{6} : \frac{11}{36} =$

③ a) $\frac{1}{4} : \frac{13}{32} =$

b) $\frac{12}{25} : \frac{1}{5} =$

c) $\frac{3}{22} : \frac{3}{28} =$

d) $\frac{5}{18} : \frac{5}{13} =$

④ a) $\frac{2}{21} : \frac{2}{37} =$

b) $\frac{2}{17} : \frac{1}{17} =$

c) $\frac{2}{3} : \frac{23}{27} =$

d) $\frac{3}{13} : \frac{4}{13} =$

⑤ a) $\frac{1}{6} : \frac{3}{26} =$

b) $\frac{5}{8} : \frac{10}{19} =$

c) $\frac{1}{42} : \frac{1}{24} =$

d) $\frac{1}{3} : \frac{23}{45} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{41} : \frac{2}{23} = \frac{2}{41} \cdot \frac{23}{2} = \frac{1 \cdot 23}{41 \cdot 1} = \frac{23}{41} \quad \text{b) } \frac{3}{38} : \frac{1}{32} = \frac{3}{38} \cdot \frac{32}{1} = \frac{3 \cdot 16}{19 \cdot 1} = 2 \frac{10}{19}$$

$$\text{c) } \frac{9}{13} : \frac{3}{7} = \frac{9}{13} \cdot \frac{7}{3} = \frac{3 \cdot 7}{13 \cdot 1} = 1 \frac{8}{13} \quad \text{d) } \frac{14}{37} : \frac{2}{3} = \frac{14}{37} \cdot \frac{3}{2} = \frac{7 \cdot 3}{37 \cdot 1} = \frac{21}{37}$$

$$\textcircled{2} \quad \text{a) } \frac{3}{5} : \frac{18}{23} = \frac{3}{5} \cdot \frac{23}{18} = \frac{1 \cdot 23}{5 \cdot 6} = \frac{23}{30} \quad \text{b) } \frac{2}{21} : \frac{1}{18} = \frac{2}{21} \cdot \frac{18}{1} = \frac{2 \cdot 6}{7 \cdot 1} = 1 \frac{5}{7}$$

$$\text{c) } \frac{11}{12} : \frac{4}{9} = \frac{11}{12} \cdot \frac{9}{4} = \frac{11 \cdot 3}{4 \cdot 4} = 2 \frac{1}{16} \quad \text{d) } \frac{1}{6} : \frac{11}{36} = \frac{1}{6} \cdot \frac{36}{11} = \frac{1 \cdot 6}{1 \cdot 11} = \frac{6}{11}$$

$$\textcircled{3} \quad \text{a) } \frac{1}{4} : \frac{13}{32} = \frac{1}{4} \cdot \frac{32}{13} = \frac{1 \cdot 8}{1 \cdot 13} = \frac{8}{13} \quad \text{b) } \frac{12}{25} : \frac{1}{5} = \frac{12}{25} \cdot \frac{5}{1} = \frac{12 \cdot 1}{5 \cdot 1} = 2 \frac{2}{5}$$

$$\text{c) } \frac{3}{22} : \frac{3}{28} = \frac{3}{22} \cdot \frac{28}{3} = \frac{1 \cdot 14}{11 \cdot 1} = 1 \frac{3}{11} \quad \text{d) } \frac{5}{18} : \frac{5}{13} = \frac{5}{18} \cdot \frac{13}{5} = \frac{1 \cdot 13}{18 \cdot 1} = \frac{13}{18}$$

$$\textcircled{4} \quad \text{a) } \frac{2}{21} : \frac{2}{37} = \frac{2}{21} \cdot \frac{37}{2} = \frac{1 \cdot 37}{21 \cdot 1} = 1 \frac{16}{21} \quad \text{b) } \frac{2}{17} : \frac{1}{17} = \frac{2}{17} \cdot \frac{17}{1} = \frac{2 \cdot 1}{1 \cdot 1} = 2$$

$$\text{c) } \frac{2}{3} : \frac{23}{27} = \frac{2}{3} \cdot \frac{27}{23} = \frac{2 \cdot 9}{1 \cdot 23} = \frac{18}{23} \quad \text{d) } \frac{3}{13} : \frac{4}{13} = \frac{3}{13} \cdot \frac{13}{4} = \frac{3 \cdot 1}{1 \cdot 4} = \frac{3}{4}$$

$$\textcircled{5} \quad \text{a) } \frac{1}{6} : \frac{3}{26} = \frac{1}{6} \cdot \frac{26}{3} = \frac{1 \cdot 13}{3 \cdot 3} = 1 \frac{4}{9} \quad \text{b) } \frac{5}{8} : \frac{10}{19} = \frac{5}{8} \cdot \frac{19}{10} = \frac{1 \cdot 19}{8 \cdot 2} = 1 \frac{3}{16}$$

$$\text{c) } \frac{1}{42} : \frac{1}{24} = \frac{1}{42} \cdot \frac{24}{1} = \frac{1 \cdot 4}{7 \cdot 1} = \frac{4}{7} \quad \text{d) } \frac{1}{3} : \frac{23}{45} = \frac{1}{3} \cdot \frac{45}{23} = \frac{1 \cdot 15}{1 \cdot 23} = \frac{15}{23}$$