

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

① a)  $\frac{1}{21} : \frac{1}{3} =$

b)  $\frac{5}{39} : \frac{2}{9} =$

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

d)  $\frac{2}{5} : \frac{1}{25} =$

② a)  $\frac{1}{14} : \frac{5}{7} =$

b)  $\frac{8}{9} : \frac{6}{11} =$

c)  $\frac{6}{19} : \frac{3}{13} =$

d)  $\frac{2}{45} : \frac{1}{21} =$

③ a)  $\frac{5}{14} : \frac{7}{12} =$

b)  $\frac{2}{3} : \frac{16}{35} =$

c)  $\frac{5}{27} : \frac{1}{15} =$

d)  $\frac{11}{20} : \frac{3}{4} =$

④ a)  $\frac{2}{7} : \frac{13}{28} =$

b)  $\frac{3}{26} : \frac{1}{30} =$

c)  $\frac{3}{13} : \frac{6}{29} =$

d)  $\frac{6}{23} : \frac{4}{5} =$

⑤ a)  $\frac{2}{3} : \frac{8}{11} =$

b)  $\frac{1}{6} : \frac{2}{15} =$

c)  $\frac{7}{10} : \frac{7}{13} =$

d)  $\frac{2}{21} : \frac{4}{29} =$

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

$$\textcircled{1} \quad \text{a) } \frac{1}{21} : \frac{1}{3} = \frac{1}{21} \cdot \frac{3}{1} = \frac{1 \cdot 3}{7 \cdot 1} = \frac{1}{7} \quad \text{b) } \frac{5}{39} : \frac{2}{9} = \frac{5}{39} \cdot \frac{9}{2} = \frac{5 \cdot 3}{13 \cdot 2} = \frac{15}{26}$$

$$\text{c) } \frac{5}{8} : \frac{10}{19} = \frac{5}{8} \cdot \frac{19}{10} = \frac{1 \cdot 19}{8 \cdot 2} = 1 \frac{3}{16} \quad \text{d) } \frac{2}{5} : \frac{1}{25} = \frac{2}{5} \cdot \frac{25}{1} = \frac{2 \cdot 5}{1 \cdot 1} = 10$$

$$\textcircled{2} \quad \text{a) } \frac{1}{14} : \frac{5}{7} = \frac{1}{14} \cdot \frac{7}{5} = \frac{1 \cdot 1}{2 \cdot 5} = \frac{1}{10} \quad \text{b) } \frac{8}{9} : \frac{6}{11} = \frac{8}{9} \cdot \frac{11}{6} = \frac{4 \cdot 11}{9 \cdot 3} = 1 \frac{17}{27}$$

$$\text{c) } \frac{6}{19} : \frac{3}{13} = \frac{6}{19} \cdot \frac{13}{3} = \frac{2 \cdot 13}{19 \cdot 1} = 1 \frac{7}{19} \quad \text{d) } \frac{2}{45} : \frac{1}{21} = \frac{2}{45} \cdot \frac{21}{1} = \frac{2 \cdot 7}{15 \cdot 1} = \frac{14}{15}$$

$$\textcircled{3} \quad \text{a) } \frac{5}{14} : \frac{7}{12} = \frac{5}{14} \cdot \frac{12}{7} = \frac{5 \cdot 6}{7 \cdot 7} = \frac{30}{49} \quad \text{b) } \frac{2}{3} : \frac{16}{35} = \frac{2}{3} \cdot \frac{35}{16} = \frac{1 \cdot 35}{3 \cdot 8} = 1 \frac{11}{24}$$

$$\text{c) } \frac{5}{27} : \frac{1}{15} = \frac{5}{27} \cdot \frac{15}{1} = \frac{5 \cdot 5}{9 \cdot 1} = 2 \frac{7}{9} \quad \text{d) } \frac{11}{20} : \frac{3}{4} = \frac{11}{20} \cdot \frac{4}{3} = \frac{11 \cdot 1}{5 \cdot 3} = \frac{11}{15}$$

$$\textcircled{4} \quad \text{a) } \frac{2}{7} : \frac{13}{28} = \frac{2}{7} \cdot \frac{28}{13} = \frac{2 \cdot 4}{1 \cdot 13} = \frac{8}{13} \quad \text{b) } \frac{3}{26} : \frac{1}{30} = \frac{3}{26} \cdot \frac{30}{1} = \frac{3 \cdot 15}{13 \cdot 1} = 3 \frac{6}{13}$$

$$\text{c) } \frac{3}{13} : \frac{6}{29} = \frac{3}{13} \cdot \frac{29}{6} = \frac{1 \cdot 29}{13 \cdot 2} = 1 \frac{3}{26} \quad \text{d) } \frac{6}{23} : \frac{4}{5} = \frac{6}{23} \cdot \frac{5}{4} = \frac{3 \cdot 5}{23 \cdot 2} = \frac{15}{46}$$

$$\textcircled{5} \quad \text{a) } \frac{2}{3} : \frac{8}{11} = \frac{2}{3} \cdot \frac{11}{8} = \frac{1 \cdot 11}{3 \cdot 4} = \frac{11}{12} \quad \text{b) } \frac{1}{6} : \frac{2}{15} = \frac{1}{6} \cdot \frac{15}{2} = \frac{1 \cdot 5}{2 \cdot 2} = 1 \frac{1}{4}$$

$$\text{c) } \frac{7}{10} : \frac{7}{13} = \frac{7}{10} \cdot \frac{13}{7} = \frac{1 \cdot 13}{10 \cdot 1} = 1 \frac{3}{10} \quad \text{d) } \frac{2}{21} : \frac{4}{29} = \frac{2}{21} \cdot \frac{29}{4} = \frac{1 \cdot 29}{21 \cdot 2} = \frac{29}{42}$$