

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

① a)  $\frac{1}{7} : \frac{13}{21} =$

b)  $\frac{8}{19} : \frac{2}{5} =$

c)  $\frac{3}{13} : \frac{3}{17} =$

d)  $\frac{1}{30} : \frac{1}{8} =$

② a)  $\frac{2}{3} : \frac{23}{39} =$

b)  $\frac{7}{11} : \frac{7}{12} =$

c)  $\frac{3}{4} : \frac{21}{26} =$

d)  $\frac{3}{8} : \frac{5}{24} =$

③ a)  $\frac{2}{5} : \frac{11}{40} =$

b)  $\frac{1}{6} : \frac{3}{14} =$

c)  $\frac{1}{12} : \frac{4}{33} =$

d)  $\frac{2}{15} : \frac{2}{37} =$

④ a)  $\frac{3}{16} : \frac{1}{18} =$

b)  $\frac{2}{7} : \frac{10}{31} =$

c)  $\frac{3}{28} : \frac{3}{5} =$

d)  $\frac{4}{41} : \frac{2}{21} =$

⑤ a)  $\frac{21}{38} : \frac{1}{4} =$

b)  $\frac{3}{29} : \frac{3}{22} =$

c)  $\frac{1}{6} : \frac{2}{45} =$

d)  $\frac{1}{2} : \frac{7}{20} =$

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

$$\textcircled{1} \quad \text{a) } \frac{1}{7} : \frac{13}{21} = \frac{1}{7} \cdot \frac{21}{13} = \frac{1 \cdot 3}{1 \cdot 13} = \frac{3}{13} \quad \text{b) } \frac{8}{19} : \frac{2}{5} = \frac{8}{19} \cdot \frac{5}{2} = \frac{4 \cdot 5}{19 \cdot 1} = 1 \frac{1}{19}$$

$$\text{c) } \frac{3}{13} : \frac{3}{17} = \frac{3}{13} \cdot \frac{17}{3} = \frac{1 \cdot 17}{13 \cdot 1} = 1 \frac{4}{13} \quad \text{d) } \frac{1}{30} : \frac{1}{8} = \frac{1}{30} \cdot \frac{8}{1} = \frac{1 \cdot 4}{15 \cdot 1} = \frac{4}{15}$$

$$\textcircled{2} \quad \text{a) } \frac{2}{3} : \frac{23}{39} = \frac{2}{3} \cdot \frac{39}{23} = \frac{2 \cdot 13}{1 \cdot 23} = 1 \frac{3}{23} \quad \text{b) } \frac{7}{11} : \frac{7}{12} = \frac{7}{11} \cdot \frac{12}{7} = \frac{1 \cdot 12}{11 \cdot 1} = 1 \frac{1}{11}$$

$$\text{c) } \frac{3}{4} : \frac{21}{26} = \frac{3}{4} \cdot \frac{26}{21} = \frac{1 \cdot 13}{2 \cdot 7} = \frac{13}{14} \quad \text{d) } \frac{3}{8} : \frac{5}{24} = \frac{3}{8} \cdot \frac{24}{5} = \frac{3 \cdot 3}{1 \cdot 5} = 1 \frac{4}{5}$$

$$\textcircled{3} \quad \text{a) } \frac{2}{5} : \frac{11}{40} = \frac{2}{5} \cdot \frac{40}{11} = \frac{2 \cdot 8}{1 \cdot 11} = 1 \frac{5}{11} \quad \text{b) } \frac{1}{6} : \frac{3}{14} = \frac{1}{6} \cdot \frac{14}{3} = \frac{1 \cdot 7}{3 \cdot 3} = \frac{7}{9}$$

$$\text{c) } \frac{1}{12} : \frac{4}{33} = \frac{1}{12} \cdot \frac{33}{4} = \frac{1 \cdot 11}{4 \cdot 4} = \frac{11}{16} \quad \text{d) } \frac{2}{15} : \frac{2}{37} = \frac{2}{15} \cdot \frac{37}{2} = \frac{1 \cdot 37}{15 \cdot 1} = 2 \frac{7}{15}$$

$$\textcircled{4} \quad \text{a) } \frac{3}{16} : \frac{1}{18} = \frac{3}{16} \cdot \frac{18}{1} = \frac{3 \cdot 9}{8 \cdot 1} = 3 \frac{3}{8} \quad \text{b) } \frac{2}{7} : \frac{10}{31} = \frac{2}{7} \cdot \frac{31}{10} = \frac{1 \cdot 31}{7 \cdot 5} = \frac{31}{35}$$

$$\text{c) } \frac{3}{28} : \frac{3}{5} = \frac{3}{28} \cdot \frac{5}{3} = \frac{1 \cdot 5}{28 \cdot 1} = \frac{5}{28} \quad \text{d) } \frac{4}{41} : \frac{2}{21} = \frac{4}{41} \cdot \frac{21}{2} = \frac{2 \cdot 21}{41 \cdot 1} = 1 \frac{1}{41}$$

$$\textcircled{5} \quad \text{a) } \frac{21}{38} : \frac{1}{4} = \frac{21}{38} \cdot \frac{4}{1} = \frac{21 \cdot 2}{19 \cdot 1} = 2 \frac{4}{19} \quad \text{b) } \frac{3}{29} : \frac{3}{22} = \frac{3}{29} \cdot \frac{22}{3} = \frac{1 \cdot 22}{29 \cdot 1} = \frac{22}{29}$$

$$\text{c) } \frac{1}{6} : \frac{2}{45} = \frac{1}{6} \cdot \frac{45}{2} = \frac{1 \cdot 15}{2 \cdot 2} = 3 \frac{3}{4} \quad \text{d) } \frac{1}{2} : \frac{7}{20} = \frac{1}{2} \cdot \frac{20}{7} = \frac{1 \cdot 10}{1 \cdot 7} = 1 \frac{3}{7}$$