

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

① a)  $\frac{1}{7} : \frac{11}{21} =$

b)  $\frac{8}{11} : \frac{4}{9} =$

c)  $\frac{3}{14} : \frac{3}{25} =$

d)  $\frac{1}{12} : \frac{7}{44} =$

② a)  $\frac{5}{24} : \frac{4}{15} =$

b)  $\frac{2}{45} : \frac{1}{35} =$

c)  $\frac{18}{23} : \frac{2}{3} =$

d)  $\frac{1}{14} : \frac{5}{36} =$

③ a)  $\frac{4}{5} : \frac{12}{17} =$

b)  $\frac{7}{26} : \frac{1}{6} =$

c)  $\frac{2}{37} : \frac{2}{35} =$

d)  $\frac{5}{11} : \frac{5}{18} =$

④ a)  $\frac{13}{32} : \frac{1}{4} =$

b)  $\frac{3}{14} : \frac{7}{8} =$

c)  $\frac{3}{5} : \frac{18}{31} =$

d)  $\frac{10}{17} : \frac{4}{7} =$

⑤ a)  $\frac{1}{6} : \frac{11}{45} =$

b)  $\frac{1}{32} : \frac{1}{44} =$

c)  $\frac{1}{8} : \frac{3}{40} =$

d)  $\frac{3}{7} : \frac{9}{14} =$

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

$$\textcircled{1} \quad \text{a) } \frac{1}{7} : \frac{11}{21} = \frac{1}{7} \cdot \frac{21}{11} = \frac{1 \cdot 3}{1 \cdot 11} = \frac{3}{11} \quad \text{b) } \frac{8}{11} : \frac{4}{9} = \frac{8}{11} \cdot \frac{9}{4} = \frac{2 \cdot 9}{11 \cdot 1} = 1 \frac{7}{11}$$

$$\text{c) } \frac{3}{14} : \frac{3}{25} = \frac{3}{14} \cdot \frac{25}{3} = \frac{1 \cdot 25}{14 \cdot 1} = 1 \frac{11}{14} \quad \text{d) } \frac{1}{12} : \frac{7}{44} = \frac{1}{12} \cdot \frac{44}{7} = \frac{1 \cdot 11}{3 \cdot 7} = \frac{11}{21}$$

$$\textcircled{2} \quad \text{a) } \frac{5}{24} : \frac{4}{15} = \frac{5}{24} \cdot \frac{15}{4} = \frac{5 \cdot 5}{8 \cdot 4} = \frac{25}{32} \quad \text{b) } \frac{2}{45} : \frac{1}{35} = \frac{2}{45} \cdot \frac{35}{1} = \frac{2 \cdot 7}{9 \cdot 1} = 1 \frac{5}{9}$$

$$\text{c) } \frac{18}{23} : \frac{2}{3} = \frac{18}{23} \cdot \frac{3}{2} = \frac{9 \cdot 3}{23 \cdot 1} = 1 \frac{4}{23} \quad \text{d) } \frac{1}{14} : \frac{5}{36} = \frac{1}{14} \cdot \frac{36}{5} = \frac{1 \cdot 18}{7 \cdot 5} = \frac{18}{35}$$

$$\textcircled{3} \quad \text{a) } \frac{4}{5} : \frac{12}{17} = \frac{4}{5} \cdot \frac{17}{12} = \frac{1 \cdot 17}{5 \cdot 3} = 1 \frac{2}{15} \quad \text{b) } \frac{7}{26} : \frac{1}{6} = \frac{7}{26} \cdot \frac{6}{1} = \frac{7 \cdot 3}{13 \cdot 1} = 1 \frac{8}{13}$$

$$\text{c) } \frac{2}{37} : \frac{2}{35} = \frac{2}{37} \cdot \frac{35}{2} = \frac{1 \cdot 35}{37 \cdot 1} = \frac{35}{37} \quad \text{d) } \frac{5}{11} : \frac{5}{18} = \frac{5}{11} \cdot \frac{18}{5} = \frac{1 \cdot 18}{11 \cdot 1} = 1 \frac{7}{11}$$

$$\textcircled{4} \quad \text{a) } \frac{13}{32} : \frac{1}{4} = \frac{13}{32} \cdot \frac{4}{1} = \frac{13 \cdot 1}{8 \cdot 1} = 1 \frac{5}{8} \quad \text{b) } \frac{3}{14} : \frac{7}{8} = \frac{3}{14} \cdot \frac{8}{7} = \frac{3 \cdot 4}{7 \cdot 7} = \frac{12}{49}$$

$$\text{c) } \frac{3}{5} : \frac{18}{31} = \frac{3}{5} \cdot \frac{31}{18} = \frac{1 \cdot 31}{5 \cdot 6} = 1 \frac{1}{30} \quad \text{d) } \frac{10}{17} : \frac{4}{7} = \frac{10}{17} \cdot \frac{7}{4} = \frac{5 \cdot 7}{17 \cdot 2} = 1 \frac{1}{34}$$

$$\textcircled{5} \quad \text{a) } \frac{1}{6} : \frac{11}{45} = \frac{1}{6} \cdot \frac{45}{11} = \frac{1 \cdot 15}{2 \cdot 11} = \frac{15}{22} \quad \text{b) } \frac{1}{32} : \frac{1}{44} = \frac{1}{32} \cdot \frac{44}{1} = \frac{1 \cdot 11}{8 \cdot 1} = 1 \frac{3}{8}$$

$$\text{c) } \frac{1}{8} : \frac{3}{40} = \frac{1}{8} \cdot \frac{40}{3} = \frac{1 \cdot 5}{1 \cdot 3} = 1 \frac{2}{3} \quad \text{d) } \frac{3}{7} : \frac{9}{14} = \frac{3}{7} \cdot \frac{14}{9} = \frac{1 \cdot 2}{1 \cdot 3} = \frac{2}{3}$$