

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

① a)  $\frac{11}{18} : \frac{1}{4} =$

b)  $\frac{14}{15} : \frac{4}{7} =$

c)  $\frac{4}{13} : \frac{6}{13} =$

d)  $\frac{2}{45} : \frac{2}{17} =$

② a)  $\frac{2}{3} : \frac{1}{12} =$

b)  $\frac{13}{15} : \frac{4}{5} =$

c)  $\frac{1}{6} : \frac{13}{14} =$

d)  $\frac{1}{4} : \frac{17}{44} =$

③ a)  $\frac{1}{2} : \frac{7}{32} =$

b)  $\frac{13}{18} : \frac{1}{3} =$

c)  $\frac{1}{5} : \frac{9}{35} =$

d)  $\frac{4}{7} : \frac{8}{17} =$

④ a)  $\frac{4}{27} : \frac{2}{21} =$

b)  $\frac{1}{33} : \frac{3}{22} =$

c)  $\frac{1}{32} : \frac{1}{30} =$

d)  $\frac{2}{3} : \frac{16}{41} =$

⑤ a)  $\frac{12}{13} : \frac{3}{7} =$

b)  $\frac{6}{17} : \frac{4}{11} =$

c)  $\frac{11}{38} : \frac{1}{8} =$

d)  $\frac{8}{35} : \frac{2}{9} =$

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

$$\textcircled{1} \quad \text{a) } \frac{11}{18} : \frac{1}{4} = \frac{11}{18} \cdot \frac{4}{1} = \frac{11 \cdot 2}{9 \cdot 1} = 2 \frac{4}{9} \quad \text{b) } \frac{14}{15} : \frac{4}{7} = \frac{14}{15} \cdot \frac{7}{4} = \frac{7 \cdot 7}{15 \cdot 2} = 1 \frac{19}{30}$$

$$\text{c) } \frac{4}{13} : \frac{6}{13} = \frac{4}{13} \cdot \frac{13}{6} = \frac{2 \cdot 1}{1 \cdot 3} = \frac{2}{3} \quad \text{d) } \frac{2}{45} : \frac{2}{17} = \frac{2}{45} \cdot \frac{17}{2} = \frac{1 \cdot 17}{45 \cdot 1} = \frac{17}{45}$$

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

$$\text{c) } \frac{1}{6} : \frac{13}{14} = \frac{1}{6} \cdot \frac{14}{13} = \frac{1 \cdot 7}{3 \cdot 13} = \frac{7}{39} \quad \text{d) } \frac{1}{4} : \frac{17}{44} = \frac{1}{4} \cdot \frac{44}{17} = \frac{1 \cdot 11}{1 \cdot 17} = \frac{11}{17}$$

$$\textcircled{3} \quad \text{a) } \frac{1}{2} : \frac{7}{32} = \frac{1}{2} \cdot \frac{32}{7} = \frac{1 \cdot 16}{1 \cdot 7} = 2 \frac{2}{7} \quad \text{b) } \frac{13}{18} : \frac{1}{3} = \frac{13}{18} \cdot \frac{3}{1} = \frac{13 \cdot 1}{6 \cdot 1} = 2 \frac{1}{6}$$

$$\text{c) } \frac{1}{5} : \frac{9}{35} = \frac{1}{5} \cdot \frac{35}{9} = \frac{1 \cdot 7}{1 \cdot 9} = \frac{7}{9} \quad \text{d) } \frac{4}{7} : \frac{8}{17} = \frac{4}{7} \cdot \frac{17}{8} = \frac{1 \cdot 17}{7 \cdot 2} = 1 \frac{3}{14}$$

$$\textcircled{4} \quad \text{a) } \frac{4}{27} : \frac{2}{21} = \frac{4}{27} \cdot \frac{21}{2} = \frac{2 \cdot 7}{9 \cdot 1} = 1 \frac{5}{9} \quad \text{b) } \frac{1}{33} : \frac{3}{22} = \frac{1}{33} \cdot \frac{22}{3} = \frac{1 \cdot 2}{3 \cdot 3} = \frac{2}{9}$$

$$\text{c) } \frac{1}{32} : \frac{1}{30} = \frac{1}{32} \cdot \frac{30}{1} = \frac{1 \cdot 15}{16 \cdot 1} = \frac{15}{16} \quad \text{d) } \frac{2}{3} : \frac{16}{41} = \frac{2}{3} \cdot \frac{41}{16} = \frac{1 \cdot 41}{3 \cdot 8} = 1 \frac{17}{24}$$

$$\textcircled{5} \quad \text{a) } \frac{12}{13} : \frac{3}{7} = \frac{12}{13} \cdot \frac{7}{3} = \frac{4 \cdot 7}{13 \cdot 1} = 2 \frac{2}{13} \quad \text{b) } \frac{6}{17} : \frac{4}{11} = \frac{6}{17} \cdot \frac{11}{4} = \frac{3 \cdot 11}{17 \cdot 2} = \frac{33}{34}$$

$$\text{c) } \frac{11}{38} : \frac{1}{8} = \frac{11}{38} \cdot \frac{8}{1} = \frac{11 \cdot 4}{19 \cdot 1} = 2 \frac{6}{19} \quad \text{d) } \frac{8}{35} : \frac{2}{9} = \frac{8}{35} \cdot \frac{9}{2} = \frac{4 \cdot 9}{35 \cdot 1} = 1 \frac{1}{35}$$