

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

① a) $\frac{5}{19} : \frac{5}{12} =$

b) $\frac{7}{18} : \frac{1}{4} =$

c) $\frac{4}{15} : \frac{2}{9} =$

d) $\frac{10}{17} : \frac{5}{7} =$

② a) $\frac{11}{45} : \frac{1}{3} =$

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

c) $\frac{4}{25} : \frac{2}{13} =$

d) $\frac{2}{11} : \frac{8}{23} =$

③ a) $\frac{3}{4} : \frac{6}{19} =$

b) $\frac{7}{12} : \frac{1}{12} =$

c) $\frac{3}{16} : \frac{3}{13} =$

d) $\frac{1}{6} : \frac{8}{45} =$

④ a) $\frac{1}{36} : \frac{1}{40} =$

b) $\frac{1}{2} : \frac{17}{44} =$

c) $\frac{10}{41} : \frac{2}{3} =$

d) $\frac{2}{11} : \frac{8}{17} =$

⑤ a) $\frac{7}{13} : \frac{5}{13} =$

b) $\frac{3}{10} : \frac{1}{16} =$

c) $\frac{1}{7} : \frac{6}{7} =$

d) $\frac{8}{25} : \frac{4}{11} =$

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

$$\textcircled{1} \quad \text{a) } \frac{5}{19} : \frac{5}{12} = \frac{5}{19} \cdot \frac{12}{5} = \frac{1 \cdot 12}{19 \cdot 1} = \frac{12}{19} \quad \text{b) } \frac{7}{18} : \frac{1}{4} = \frac{7}{18} \cdot \frac{4}{1} = \frac{7 \cdot 2}{9 \cdot 1} = 1 \frac{5}{9}$$

$$\text{c) } \frac{4}{15} : \frac{2}{9} = \frac{4}{15} \cdot \frac{9}{2} = \frac{2 \cdot 3}{5 \cdot 1} = 1 \frac{1}{5} \quad \text{d) } \frac{10}{17} : \frac{5}{7} = \frac{10}{17} \cdot \frac{7}{5} = \frac{2 \cdot 7}{17 \cdot 1} = \frac{14}{17}$$

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

$$\text{c) } \frac{4}{25} : \frac{2}{13} = \frac{4}{25} \cdot \frac{13}{2} = \frac{2 \cdot 13}{25 \cdot 1} = 1 \frac{1}{25} \quad \text{d) } \frac{2}{11} : \frac{8}{23} = \frac{2}{11} \cdot \frac{23}{8} = \frac{1 \cdot 23}{11 \cdot 4} = \frac{23}{44}$$

$$\textcircled{3} \quad \text{a) } \frac{3}{4} : \frac{6}{19} = \frac{3}{4} \cdot \frac{19}{6} = \frac{1 \cdot 19}{4 \cdot 2} = 2 \frac{3}{8} \quad \text{b) } \frac{7}{12} : \frac{1}{12} = \frac{7}{12} \cdot \frac{12}{1} = \frac{7 \cdot 1}{1 \cdot 1} = 7$$

$$\text{c) } \frac{3}{16} : \frac{3}{13} = \frac{3}{16} \cdot \frac{13}{3} = \frac{1 \cdot 13}{16 \cdot 1} = \frac{13}{16} \quad \text{d) } \frac{1}{6} : \frac{8}{45} = \frac{1}{6} \cdot \frac{45}{8} = \frac{1 \cdot 15}{2 \cdot 8} = \frac{15}{16}$$

$$\textcircled{4} \quad \text{a) } \frac{1}{36} : \frac{1}{40} = \frac{1}{36} \cdot \frac{40}{1} = \frac{1 \cdot 10}{9 \cdot 1} = 1 \frac{1}{9} \quad \text{b) } \frac{1}{2} : \frac{17}{44} = \frac{1}{2} \cdot \frac{44}{17} = \frac{1 \cdot 22}{1 \cdot 17} = 1 \frac{5}{17}$$

$$\text{c) } \frac{10}{41} : \frac{2}{3} = \frac{10}{41} \cdot \frac{3}{2} = \frac{5 \cdot 3}{41 \cdot 1} = \frac{15}{41} \quad \text{d) } \frac{2}{11} : \frac{8}{17} = \frac{2}{11} \cdot \frac{17}{8} = \frac{1 \cdot 17}{11 \cdot 4} = \frac{17}{44}$$

$$\textcircled{5} \quad \text{a) } \frac{7}{13} : \frac{5}{13} = \frac{7}{13} \cdot \frac{13}{5} = \frac{7 \cdot 1}{1 \cdot 5} = 1 \frac{2}{5} \quad \text{b) } \frac{3}{10} : \frac{1}{16} = \frac{3}{10} \cdot \frac{16}{1} = \frac{3 \cdot 8}{5 \cdot 1} = 4 \frac{4}{5}$$

$$\text{c) } \frac{1}{7} : \frac{6}{7} = \frac{1}{7} \cdot \frac{7}{6} = \frac{1 \cdot 1}{1 \cdot 6} = \frac{1}{6} \quad \text{d) } \frac{8}{25} : \frac{4}{11} = \frac{8}{25} \cdot \frac{11}{4} = \frac{2 \cdot 11}{25 \cdot 1} = \frac{22}{25}$$