

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

① a) $\frac{4}{9} : \frac{2}{11} =$

b) $\frac{17}{28} : \frac{1}{4} =$

c) $\frac{1}{22} : \frac{3}{22} =$

d) $\frac{2}{3} : \frac{8}{17} =$

② a) $\frac{10}{23} : \frac{2}{9} =$

b) $\frac{9}{25} : \frac{3}{8} =$

c) $\frac{2}{7} : \frac{10}{37} =$

d) $\frac{5}{13} : \frac{5}{17} =$

③ a) $\frac{1}{3} : \frac{16}{39} =$

b) $\frac{9}{32} : \frac{3}{10} =$

c) $\frac{5}{6} : \frac{9}{16} =$

d) $\frac{6}{13} : \frac{2}{13} =$

④ a) $\frac{10}{21} : \frac{4}{7} =$

b) $\frac{1}{8} : \frac{7}{34} =$

c) $\frac{1}{14} : \frac{1}{20} =$

d) $\frac{3}{19} : \frac{3}{22} =$

⑤ a) $\frac{2}{3} : \frac{18}{25} =$

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

c) $\frac{9}{10} : \frac{6}{11} =$

d) $\frac{2}{5} : \frac{16}{39} =$

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

$$\textcircled{1} \quad \text{a) } \frac{4}{9} : \frac{2}{11} = \frac{4}{9} \cdot \frac{11}{2} = \frac{2 \cdot 11}{9 \cdot 1} = 2 \frac{4}{9} \quad \text{b) } \frac{17}{28} : \frac{1}{4} = \frac{17}{28} \cdot \frac{4}{1} = \frac{17 \cdot 1}{7 \cdot 1} = 2 \frac{3}{7}$$

$$\text{c) } \frac{1}{22} : \frac{3}{22} = \frac{1}{22} \cdot \frac{22}{3} = \frac{1 \cdot 1}{1 \cdot 3} = \frac{1}{3} \quad \text{d) } \frac{2}{3} : \frac{8}{17} = \frac{2}{3} \cdot \frac{17}{8} = \frac{1 \cdot 17}{3 \cdot 4} = 1 \frac{5}{12}$$

$$\textcircled{2} \quad \text{a) } \frac{10}{23} : \frac{2}{9} = \frac{10}{23} \cdot \frac{9}{2} = \frac{5 \cdot 9}{23 \cdot 1} = 1 \frac{22}{23} \quad \text{b) } \frac{9}{25} : \frac{3}{8} = \frac{9}{25} \cdot \frac{8}{3} = \frac{3 \cdot 8}{25 \cdot 1} = \frac{24}{25}$$

$$\text{c) } \frac{2}{7} : \frac{10}{37} = \frac{2}{7} \cdot \frac{37}{10} = \frac{1 \cdot 37}{7 \cdot 5} = 1 \frac{2}{35} \quad \text{d) } \frac{5}{13} : \frac{5}{17} = \frac{5}{13} \cdot \frac{17}{5} = \frac{1 \cdot 17}{13 \cdot 1} = 1 \frac{4}{13}$$

$$\textcircled{3} \quad \text{a) } \frac{1}{3} : \frac{16}{39} = \frac{1}{3} \cdot \frac{39}{16} = \frac{1 \cdot 13}{1 \cdot 16} = \frac{13}{16} \quad \text{b) } \frac{9}{32} : \frac{3}{10} = \frac{9}{32} \cdot \frac{10}{3} = \frac{3 \cdot 5}{16 \cdot 1} = \frac{15}{16}$$

$$\text{c) } \frac{5}{6} : \frac{9}{16} = \frac{5}{6} \cdot \frac{16}{9} = \frac{5 \cdot 8}{3 \cdot 9} = 1 \frac{13}{27} \quad \text{d) } \frac{6}{13} : \frac{2}{13} = \frac{6}{13} \cdot \frac{13}{2} = \frac{3 \cdot 1}{1 \cdot 1} = 3$$

$$\textcircled{4} \quad \text{a) } \frac{10}{21} : \frac{4}{7} = \frac{10}{21} \cdot \frac{7}{4} = \frac{5 \cdot 1}{3 \cdot 2} = \frac{5}{6} \quad \text{b) } \frac{1}{8} : \frac{7}{34} = \frac{1}{8} \cdot \frac{34}{7} = \frac{1 \cdot 17}{4 \cdot 7} = \frac{17}{28}$$

$$\text{c) } \frac{1}{14} : \frac{1}{20} = \frac{1}{14} \cdot \frac{20}{1} = \frac{1 \cdot 10}{7 \cdot 1} = 1 \frac{3}{7} \quad \text{d) } \frac{3}{19} : \frac{3}{22} = \frac{3}{19} \cdot \frac{22}{3} = \frac{1 \cdot 22}{19 \cdot 1} = 1 \frac{3}{19}$$

$$\textcircled{5} \quad \text{a) } \frac{2}{3} : \frac{18}{25} = \frac{2}{3} \cdot \frac{25}{18} = \frac{1 \cdot 25}{3 \cdot 9} = \frac{25}{27} \quad \text{b) } \frac{1}{2} : \frac{1}{44} = \frac{1}{2} \cdot \frac{44}{1} = \frac{1 \cdot 22}{1 \cdot 1} = 22$$

$$\text{c) } \frac{9}{10} : \frac{6}{11} = \frac{9}{10} \cdot \frac{11}{6} = \frac{3 \cdot 11}{10 \cdot 2} = 1 \frac{13}{20} \quad \text{d) } \frac{2}{5} : \frac{16}{39} = \frac{2}{5} \cdot \frac{39}{16} = \frac{1 \cdot 39}{5 \cdot 8} = \frac{39}{40}$$