

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

① a) $\frac{3}{17} : \frac{5}{17} =$

b) $\frac{10}{11} : \frac{4}{9} =$

c) $\frac{2}{7} : \frac{1}{14} =$

d) $\frac{1}{16} : \frac{5}{22} =$

② a) $\frac{3}{28} : \frac{3}{13} =$

b) $\frac{2}{5} : \frac{2}{39} =$

c) $\frac{2}{9} : \frac{6}{37} =$

d) $\frac{7}{36} : \frac{1}{2} =$

③ a) $\frac{13}{14} : \frac{3}{4} =$

b) $\frac{7}{10} : \frac{5}{8} =$

c) $\frac{1}{6} : \frac{11}{15} =$

d) $\frac{2}{23} : \frac{2}{27} =$

④ a) $\frac{2}{3} : \frac{6}{11} =$

b) $\frac{1}{42} : \frac{1}{12} =$

c) $\frac{2}{43} : \frac{2}{35} =$

d) $\frac{13}{15} : \frac{3}{5} =$

⑤ a) $\frac{9}{11} : \frac{1}{11} =$

b) $\frac{1}{14} : \frac{5}{42} =$

c) $\frac{1}{7} : \frac{11}{35} =$

d) $\frac{3}{40} : \frac{1}{20} =$

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

$$\textcircled{1} \quad \text{a) } \frac{3}{17} : \frac{5}{17} = \frac{3}{17} \cdot \frac{17}{5} = \frac{3 \cdot 17}{1 \cdot 5} = \frac{3}{5} \quad \text{b) } \frac{10}{11} : \frac{4}{9} = \frac{10}{11} \cdot \frac{9}{4} = \frac{5 \cdot 9}{11 \cdot 2} = 2 \frac{1}{22}$$

$$\text{c) } \frac{2}{7} : \frac{1}{14} = \frac{2}{7} \cdot \frac{14}{1} = \frac{2 \cdot 2}{1 \cdot 1} = 4 \quad \text{d) } \frac{1}{16} : \frac{5}{22} = \frac{1}{16} \cdot \frac{22}{5} = \frac{1 \cdot 11}{8 \cdot 5} = \frac{11}{40}$$

$$\textcircled{2} \quad \text{a) } \frac{3}{28} : \frac{3}{13} = \frac{3}{28} \cdot \frac{13}{3} = \frac{1 \cdot 13}{28 \cdot 1} = \frac{13}{28} \quad \text{b) } \frac{2}{5} : \frac{2}{39} = \frac{2}{5} \cdot \frac{39}{2} = \frac{1 \cdot 39}{5 \cdot 1} = 7 \frac{4}{5}$$

$$\text{c) } \frac{2}{9} : \frac{6}{37} = \frac{2}{9} \cdot \frac{37}{6} = \frac{1 \cdot 37}{9 \cdot 3} = 1 \frac{10}{27} \quad \text{d) } \frac{7}{36} : \frac{1}{2} = \frac{7}{36} \cdot \frac{2}{1} = \frac{7 \cdot 1}{18 \cdot 1} = \frac{7}{18}$$

$$\textcircled{3} \quad \text{a) } \frac{13}{14} : \frac{3}{4} = \frac{13}{14} \cdot \frac{4}{3} = \frac{13 \cdot 2}{7 \cdot 3} = 1 \frac{5}{21} \quad \text{b) } \frac{7}{10} : \frac{5}{8} = \frac{7}{10} \cdot \frac{8}{5} = \frac{7 \cdot 4}{5 \cdot 5} = 1 \frac{3}{25}$$

$$\text{c) } \frac{1}{6} : \frac{11}{15} = \frac{1}{6} \cdot \frac{15}{11} = \frac{1 \cdot 5}{2 \cdot 11} = \frac{5}{22} \quad \text{d) } \frac{2}{23} : \frac{2}{27} = \frac{2}{23} \cdot \frac{27}{2} = \frac{1 \cdot 27}{23 \cdot 1} = 1 \frac{4}{23}$$

$$\textcircled{4} \quad \text{a) } \frac{2}{3} : \frac{6}{11} = \frac{2}{3} \cdot \frac{11}{6} = \frac{1 \cdot 11}{3 \cdot 3} = 1 \frac{2}{9} \quad \text{b) } \frac{1}{42} : \frac{1}{12} = \frac{1}{42} \cdot \frac{12}{1} = \frac{1 \cdot 2}{7 \cdot 1} = \frac{2}{7}$$

$$\text{c) } \frac{2}{43} : \frac{2}{35} = \frac{2}{43} \cdot \frac{35}{2} = \frac{1 \cdot 35}{43 \cdot 1} = \frac{35}{43} \quad \text{d) } \frac{13}{15} : \frac{3}{5} = \frac{13}{15} \cdot \frac{5}{3} = \frac{13 \cdot 1}{3 \cdot 3} = 1 \frac{4}{9}$$

$$\textcircled{5} \quad \text{a) } \frac{9}{11} : \frac{1}{11} = \frac{9}{11} \cdot \frac{11}{1} = \frac{9 \cdot 1}{1 \cdot 1} = 9 \quad \text{b) } \frac{1}{14} : \frac{5}{42} = \frac{1}{14} \cdot \frac{42}{5} = \frac{1 \cdot 3}{1 \cdot 5} = \frac{3}{5}$$

$$\text{c) } \frac{1}{7} : \frac{11}{35} = \frac{1}{7} \cdot \frac{35}{11} = \frac{1 \cdot 5}{1 \cdot 11} = \frac{5}{11} \quad \text{d) } \frac{3}{40} : \frac{1}{20} = \frac{3}{40} \cdot \frac{20}{1} = \frac{3 \cdot 1}{2 \cdot 1} = 1 \frac{1}{2}$$