

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

① a) $\frac{3}{7} : \frac{3}{25} =$

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

c) $\frac{20}{43} : \frac{2}{3} =$

d) $\frac{8}{23} : \frac{4}{11} =$

② a) $\frac{5}{38} : \frac{1}{14} =$

b) $\frac{4}{19} : \frac{3}{19} =$

c) $\frac{2}{39} : \frac{2}{37} =$

d) $\frac{19}{45} : \frac{1}{3} =$

③ a) $\frac{5}{12} : \frac{7}{18} =$

b) $\frac{1}{6} : \frac{5}{8} =$

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

d) $\frac{7}{44} : \frac{1}{11} =$

④ a) $\frac{1}{14} : \frac{3}{22} =$

b) $\frac{3}{10} : \frac{7}{20} =$

c) $\frac{4}{5} : \frac{4}{5} =$

d) $\frac{5}{39} : \frac{1}{13} =$

⑤ a) $\frac{1}{18} : \frac{5}{32} =$

b) $\frac{5}{11} : \frac{6}{11} =$

c) $\frac{14}{29} : \frac{2}{7} =$

d) $\frac{11}{34} : \frac{1}{6} =$

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

$$\textcircled{1} \quad \text{a) } \frac{3}{7} : \frac{3}{25} = \frac{3}{7} \cdot \frac{25}{3} = \frac{1 \cdot 25}{7 \cdot 1} = 3 \frac{4}{7} \quad \text{b) } \frac{5}{22} : \frac{1}{16} = \frac{5}{22} \cdot \frac{16}{1} = \frac{5 \cdot 8}{11 \cdot 1} = 3 \frac{7}{11}$$

$$\text{c) } \frac{20}{43} : \frac{2}{3} = \frac{20}{43} \cdot \frac{3}{2} = \frac{10 \cdot 3}{43 \cdot 1} = \frac{30}{43} \quad \text{d) } \frac{8}{23} : \frac{4}{11} = \frac{8}{23} \cdot \frac{11}{4} = \frac{2 \cdot 11}{23 \cdot 1} = \frac{22}{23}$$

$$\textcircled{2} \quad \text{a) } \frac{5}{38} : \frac{1}{14} = \frac{5}{38} \cdot \frac{14}{1} = \frac{5 \cdot 7}{19 \cdot 1} = 1 \frac{16}{19} \quad \text{b) } \frac{4}{19} : \frac{3}{19} = \frac{4}{19} \cdot \frac{19}{3} = \frac{4 \cdot 1}{1 \cdot 3} = 1 \frac{1}{3}$$

$$\text{c) } \frac{2}{39} : \frac{2}{37} = \frac{2}{39} \cdot \frac{37}{2} = \frac{1 \cdot 37}{39 \cdot 1} = \frac{37}{39} \quad \text{d) } \frac{19}{45} : \frac{1}{3} = \frac{19}{45} \cdot \frac{3}{1} = \frac{19 \cdot 1}{15 \cdot 1} = 1 \frac{4}{15}$$

$$\textcircled{3} \quad \text{a) } \frac{5}{12} : \frac{7}{18} = \frac{5}{12} \cdot \frac{18}{7} = \frac{5 \cdot 3}{2 \cdot 7} = 1 \frac{1}{14} \quad \text{b) } \frac{1}{6} : \frac{5}{8} = \frac{1}{6} \cdot \frac{8}{5} = \frac{1 \cdot 4}{3 \cdot 5} = \frac{4}{15}$$

$$\text{c) } \frac{8}{35} : \frac{2}{9} = \frac{8}{35} \cdot \frac{9}{2} = \frac{4 \cdot 9}{35 \cdot 1} = 1 \frac{1}{35} \quad \text{d) } \frac{7}{44} : \frac{1}{11} = \frac{7}{44} \cdot \frac{11}{1} = \frac{7 \cdot 1}{4 \cdot 1} = 1 \frac{3}{4}$$

$$\textcircled{4} \quad \text{a) } \frac{1}{14} : \frac{3}{22} = \frac{1}{14} \cdot \frac{22}{3} = \frac{1 \cdot 11}{7 \cdot 3} = \frac{11}{21} \quad \text{b) } \frac{3}{10} : \frac{7}{20} = \frac{3}{10} \cdot \frac{20}{7} = \frac{3 \cdot 2}{1 \cdot 7} = \frac{6}{7}$$

$$\text{c) } \frac{4}{5} : \frac{4}{5} = \frac{4}{5} \cdot \frac{5}{4} = \frac{1 \cdot 1}{1 \cdot 1} = 1 \quad \text{d) } \frac{5}{39} : \frac{1}{13} = \frac{5}{39} \cdot \frac{13}{1} = \frac{5 \cdot 1}{3 \cdot 1} = 1 \frac{2}{3}$$

$$\textcircled{5} \quad \text{a) } \frac{1}{18} : \frac{5}{32} = \frac{1}{18} \cdot \frac{32}{5} = \frac{1 \cdot 16}{9 \cdot 5} = \frac{16}{45} \quad \text{b) } \frac{5}{11} : \frac{6}{11} = \frac{5}{11} \cdot \frac{11}{6} = \frac{5 \cdot 1}{1 \cdot 6} = \frac{5}{6}$$

$$\text{c) } \frac{14}{29} : \frac{2}{7} = \frac{14}{29} \cdot \frac{7}{2} = \frac{7 \cdot 7}{29 \cdot 1} = 1 \frac{20}{29} \quad \text{d) } \frac{11}{34} : \frac{1}{6} = \frac{11}{34} \cdot \frac{6}{1} = \frac{11 \cdot 3}{17 \cdot 1} = 1 \frac{16}{17}$$