

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

① a) $\frac{1}{10} : \frac{9}{44} =$

b) $\frac{12}{41} : \frac{2}{7} =$

c) $\frac{5}{18} : \frac{5}{18} =$

d) $\frac{1}{3} : \frac{22}{27} =$

② a) $\frac{9}{29} : \frac{3}{8} =$

b) $\frac{1}{24} : \frac{1}{33} =$

c) $\frac{9}{11} : \frac{2}{11} =$

d) $\frac{1}{15} : \frac{3}{25} =$

③ a) $\frac{1}{7} : \frac{12}{35} =$

b) $\frac{5}{6} : \frac{10}{19} =$

c) $\frac{20}{39} : \frac{2}{5} =$

d) $\frac{1}{28} : \frac{1}{2} =$

④ a) $\frac{2}{3} : \frac{14}{43} =$

b) $\frac{5}{8} : \frac{7}{18} =$

c) $\frac{3}{16} : \frac{3}{4} =$

d) $\frac{12}{35} : \frac{2}{7} =$

⑤ a) $\frac{5}{36} : \frac{1}{15} =$

b) $\frac{7}{11} : \frac{8}{11} =$

c) $\frac{11}{32} : \frac{3}{8} =$

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

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

$$\textcircled{1} \quad \text{a) } \frac{1}{10} : \frac{9}{44} = \frac{1}{10} \cdot \frac{44}{9} = \frac{1 \cdot 22}{5 \cdot 9} = \frac{22}{45} \quad \text{b) } \frac{12}{41} : \frac{2}{7} = \frac{12}{41} \cdot \frac{7}{2} = \frac{6 \cdot 7}{41 \cdot 1} = 1 \frac{1}{41}$$

$$\text{c) } \frac{5}{18} : \frac{5}{18} = \frac{5}{18} \cdot \frac{18}{5} = \frac{1 \cdot 1}{1 \cdot 1} = 1 \quad \text{d) } \frac{1}{3} : \frac{22}{27} = \frac{1}{3} \cdot \frac{27}{22} = \frac{1 \cdot 9}{1 \cdot 22} = \frac{9}{22}$$

$$\textcircled{2} \quad \text{a) } \frac{9}{29} : \frac{3}{8} = \frac{9}{29} \cdot \frac{8}{3} = \frac{3 \cdot 8}{29 \cdot 1} = \frac{24}{29} \quad \text{b) } \frac{1}{24} : \frac{1}{33} = \frac{1}{24} \cdot \frac{33}{1} = \frac{1 \cdot 11}{8 \cdot 1} = 1 \frac{3}{8}$$

$$\text{c) } \frac{9}{11} : \frac{2}{11} = \frac{9}{11} \cdot \frac{11}{2} = \frac{9 \cdot 1}{1 \cdot 2} = 4 \frac{1}{2} \quad \text{d) } \frac{1}{15} : \frac{3}{25} = \frac{1}{15} \cdot \frac{25}{3} = \frac{1 \cdot 5}{3 \cdot 3} = \frac{5}{9}$$

$$\textcircled{3} \quad \text{a) } \frac{1}{7} : \frac{12}{35} = \frac{1}{7} \cdot \frac{35}{12} = \frac{1 \cdot 5}{1 \cdot 12} = \frac{5}{12} \quad \text{b) } \frac{5}{6} : \frac{10}{19} = \frac{5}{6} \cdot \frac{19}{10} = \frac{1 \cdot 19}{6 \cdot 2} = 1 \frac{7}{12}$$

$$\text{c) } \frac{20}{39} : \frac{2}{5} = \frac{20}{39} \cdot \frac{5}{2} = \frac{10 \cdot 5}{39 \cdot 1} = 1 \frac{11}{39} \quad \text{d) } \frac{1}{28} : \frac{1}{2} = \frac{1}{28} \cdot \frac{2}{1} = \frac{1 \cdot 1}{14 \cdot 1} = \frac{1}{14}$$

$$\textcircled{4} \quad \text{a) } \frac{2}{3} : \frac{14}{43} = \frac{2}{3} \cdot \frac{43}{14} = \frac{1 \cdot 43}{3 \cdot 7} = 2 \frac{1}{21} \quad \text{b) } \frac{5}{8} : \frac{7}{18} = \frac{5}{8} \cdot \frac{18}{7} = \frac{5 \cdot 9}{4 \cdot 7} = 1 \frac{17}{28}$$

$$\text{c) } \frac{3}{16} : \frac{3}{4} = \frac{3}{16} \cdot \frac{4}{3} = \frac{1 \cdot 1}{4 \cdot 1} = \frac{1}{4} \quad \text{d) } \frac{12}{35} : \frac{2}{7} = \frac{12}{35} \cdot \frac{7}{2} = \frac{6 \cdot 1}{5 \cdot 1} = 1 \frac{1}{5}$$

$$\textcircled{5} \quad \text{a) } \frac{5}{36} : \frac{1}{15} = \frac{5}{36} \cdot \frac{15}{1} = \frac{5 \cdot 5}{12 \cdot 1} = 2 \frac{1}{12} \quad \text{b) } \frac{7}{11} : \frac{8}{11} = \frac{7}{11} \cdot \frac{11}{8} = \frac{7 \cdot 1}{1 \cdot 8} = \frac{7}{8}$$

$$\text{c) } \frac{11}{32} : \frac{3}{8} = \frac{11}{32} \cdot \frac{8}{3} = \frac{11 \cdot 1}{4 \cdot 3} = \frac{11}{12} \quad \text{d) } \frac{5}{22} : \frac{1}{16} = \frac{5}{22} \cdot \frac{16}{1} = \frac{5 \cdot 8}{11 \cdot 1} = 3 \frac{7}{11}$$