

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

① a)  $\frac{9}{16} : \frac{1}{8} =$

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

c)  $\frac{7}{39} : \frac{2}{9} =$

d)  $\frac{1}{12} : \frac{8}{27} =$

② a)  $\frac{3}{8} : \frac{1}{30} =$

b)  $\frac{4}{19} : \frac{2}{21} =$

c)  $\frac{2}{11} : \frac{7}{33} =$

d)  $\frac{3}{4} : \frac{11}{32} =$

③ a)  $\frac{6}{7} : \frac{6}{7} =$

b)  $\frac{2}{5} : \frac{16}{25} =$

c)  $\frac{3}{14} : \frac{5}{16} =$

d)  $\frac{1}{24} : \frac{1}{36} =$

④ a)  $\frac{9}{19} : \frac{3}{8} =$

b)  $\frac{1}{2} : \frac{29}{40} =$

c)  $\frac{2}{21} : \frac{1}{21} =$

d)  $\frac{2}{3} : \frac{28}{43} =$

⑤ a)  $\frac{5}{7} : \frac{5}{6} =$

b)  $\frac{2}{35} : \frac{2}{15} =$

c)  $\frac{3}{20} : \frac{1}{32} =$

d)  $\frac{3}{26} : \frac{3}{31} =$

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

$$\textcircled{1} \quad \text{a) } \frac{9}{16} : \frac{1}{8} = \frac{9}{16} \cdot \frac{8}{1} = \frac{9 \cdot 1}{2 \cdot 1} = 4 \frac{1}{2} \quad \text{b) } \frac{3}{10} : \frac{9}{32} = \frac{3}{10} \cdot \frac{32}{9} = \frac{1 \cdot 16}{5 \cdot 3} = 1 \frac{1}{15}$$

$$\text{c) } \frac{7}{39} : \frac{2}{9} = \frac{7}{39} \cdot \frac{9}{2} = \frac{7 \cdot 3}{13 \cdot 2} = \frac{21}{26} \quad \text{d) } \frac{1}{12} : \frac{8}{27} = \frac{1}{12} \cdot \frac{27}{8} = \frac{1 \cdot 9}{4 \cdot 8} = \frac{9}{32}$$

$$\textcircled{2} \quad \text{a) } \frac{3}{8} : \frac{1}{30} = \frac{3}{8} \cdot \frac{30}{1} = \frac{3 \cdot 15}{4 \cdot 1} = 11 \frac{1}{4} \quad \text{b) } \frac{4}{19} : \frac{2}{21} = \frac{4}{19} \cdot \frac{21}{2} = \frac{2 \cdot 21}{19 \cdot 1} = 2 \frac{4}{19}$$

$$\text{c) } \frac{2}{11} : \frac{7}{33} = \frac{2}{11} \cdot \frac{33}{7} = \frac{2 \cdot 3}{1 \cdot 7} = \frac{6}{7} \quad \text{d) } \frac{3}{4} : \frac{11}{32} = \frac{3}{4} \cdot \frac{32}{11} = \frac{3 \cdot 8}{1 \cdot 11} = 2 \frac{2}{11}$$

$$\textcircled{3} \quad \text{a) } \frac{6}{7} : \frac{6}{7} = \frac{6}{7} \cdot \frac{7}{6} = \frac{1 \cdot 1}{1 \cdot 1} = 1 \quad \text{b) } \frac{2}{5} : \frac{16}{25} = \frac{2}{5} \cdot \frac{25}{16} = \frac{1 \cdot 5}{1 \cdot 8} = \frac{5}{8}$$

$$\text{c) } \frac{3}{14} : \frac{5}{16} = \frac{3}{14} \cdot \frac{16}{5} = \frac{3 \cdot 8}{7 \cdot 5} = \frac{24}{35} \quad \text{d) } \frac{1}{24} : \frac{1}{36} = \frac{1}{24} \cdot \frac{36}{1} = \frac{1 \cdot 3}{2 \cdot 1} = 1 \frac{1}{2}$$

$$\textcircled{4} \quad \text{a) } \frac{9}{19} : \frac{3}{8} = \frac{9}{19} \cdot \frac{8}{3} = \frac{3 \cdot 8}{19 \cdot 1} = 1 \frac{5}{19} \quad \text{b) } \frac{1}{2} : \frac{29}{40} = \frac{1}{2} \cdot \frac{40}{29} = \frac{1 \cdot 20}{1 \cdot 29} = \frac{20}{29}$$

$$\text{c) } \frac{2}{21} : \frac{1}{21} = \frac{2}{21} \cdot \frac{21}{1} = \frac{2 \cdot 1}{1 \cdot 1} = 2 \quad \text{d) } \frac{2}{3} : \frac{28}{43} = \frac{2}{3} \cdot \frac{43}{28} = \frac{1 \cdot 43}{3 \cdot 14} = 1 \frac{1}{42}$$

$$\textcircled{5} \quad \text{a) } \frac{5}{7} : \frac{5}{6} = \frac{5}{7} \cdot \frac{6}{5} = \frac{1 \cdot 6}{7 \cdot 1} = \frac{6}{7} \quad \text{b) } \frac{2}{35} : \frac{2}{15} = \frac{2}{35} \cdot \frac{15}{2} = \frac{1 \cdot 3}{7 \cdot 1} = \frac{3}{7}$$

$$\text{c) } \frac{3}{20} : \frac{1}{32} = \frac{3}{20} \cdot \frac{32}{1} = \frac{3 \cdot 8}{5 \cdot 1} = 4 \frac{4}{5} \quad \text{d) } \frac{3}{26} : \frac{3}{31} = \frac{3}{26} \cdot \frac{31}{3} = \frac{1 \cdot 31}{26 \cdot 1} = 1 \frac{5}{26}$$