

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

① a)  $\frac{1}{4} : \frac{1}{16} =$

b)  $\frac{2}{7} : \frac{8}{29} =$

c)  $\frac{2}{5} : \frac{14}{15} =$

d)  $\frac{2}{9} : \frac{1}{36} =$

② a)  $\frac{2}{3} : \frac{22}{39} =$

b)  $\frac{2}{25} : \frac{3}{20} =$

c)  $\frac{1}{18} : \frac{5}{16} =$

d)  $\frac{2}{37} : \frac{2}{41} =$

③ a)  $\frac{9}{35} : \frac{1}{10} =$

b)  $\frac{3}{26} : \frac{3}{11} =$

c)  $\frac{1}{4} : \frac{9}{22} =$

d)  $\frac{10}{29} : \frac{2}{7} =$

④ a)  $\frac{4}{45} : \frac{1}{25} =$

b)  $\frac{1}{3} : \frac{7}{9} =$

c)  $\frac{5}{18} : \frac{4}{15} =$

d)  $\frac{2}{23} : \frac{2}{29} =$

⑤ a)  $\frac{1}{19} : \frac{5}{19} =$

b)  $\frac{4}{13} : \frac{4}{17} =$

c)  $\frac{5}{26} : \frac{1}{8} =$

d)  $\frac{5}{44} : \frac{2}{11} =$

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

$$\textcircled{1} \quad \text{a) } \frac{1}{4} : \frac{1}{16} = \frac{1}{4} \cdot \frac{16}{1} = \frac{1 \cdot 4}{1 \cdot 1} = 4 \quad \text{b) } \frac{2}{7} : \frac{8}{29} = \frac{2}{7} \cdot \frac{29}{8} = \frac{1 \cdot 29}{7 \cdot 4} = 1 \frac{1}{28}$$

$$\text{c) } \frac{2}{5} : \frac{14}{15} = \frac{2}{5} \cdot \frac{15}{14} = \frac{1 \cdot 3}{1 \cdot 7} = \frac{3}{7} \quad \text{d) } \frac{2}{9} : \frac{1}{36} = \frac{2}{9} \cdot \frac{36}{1} = \frac{2 \cdot 4}{1 \cdot 1} = 8$$

$$\textcircled{2} \quad \text{a) } \frac{2}{3} : \frac{22}{39} = \frac{2}{3} \cdot \frac{39}{22} = \frac{1 \cdot 13}{1 \cdot 11} = 1 \frac{2}{11} \quad \text{b) } \frac{2}{25} : \frac{3}{20} = \frac{2}{25} \cdot \frac{20}{3} = \frac{2 \cdot 4}{5 \cdot 3} = \frac{8}{15}$$

$$\text{c) } \frac{1}{18} : \frac{5}{16} = \frac{1}{18} \cdot \frac{16}{5} = \frac{1 \cdot 8}{9 \cdot 5} = \frac{8}{45} \quad \text{d) } \frac{2}{37} : \frac{2}{41} = \frac{2}{37} \cdot \frac{41}{2} = \frac{1 \cdot 41}{37 \cdot 1} = 1 \frac{4}{37}$$

$$\textcircled{3} \quad \text{a) } \frac{9}{35} : \frac{1}{10} = \frac{9}{35} \cdot \frac{10}{1} = \frac{9 \cdot 2}{7 \cdot 1} = 2 \frac{4}{7} \quad \text{b) } \frac{3}{26} : \frac{3}{11} = \frac{3}{26} \cdot \frac{11}{3} = \frac{1 \cdot 11}{26 \cdot 1} = \frac{11}{26}$$

$$\text{c) } \frac{1}{4} : \frac{9}{22} = \frac{1}{4} \cdot \frac{22}{9} = \frac{1 \cdot 11}{2 \cdot 9} = \frac{11}{18} \quad \text{d) } \frac{10}{29} : \frac{2}{7} = \frac{10}{29} \cdot \frac{7}{2} = \frac{5 \cdot 7}{29 \cdot 1} = 1 \frac{6}{29}$$

$$\textcircled{4} \quad \text{a) } \frac{4}{45} : \frac{1}{25} = \frac{4}{45} \cdot \frac{25}{1} = \frac{4 \cdot 5}{9 \cdot 1} = 2 \frac{2}{9} \quad \text{b) } \frac{1}{3} : \frac{7}{9} = \frac{1}{3} \cdot \frac{9}{7} = \frac{1 \cdot 3}{1 \cdot 7} = \frac{3}{7}$$

$$\text{c) } \frac{5}{18} : \frac{4}{15} = \frac{5}{18} \cdot \frac{15}{4} = \frac{5 \cdot 5}{6 \cdot 4} = 1 \frac{1}{24} \quad \text{d) } \frac{2}{23} : \frac{2}{29} = \frac{2}{23} \cdot \frac{29}{2} = \frac{1 \cdot 29}{23 \cdot 1} = 1 \frac{6}{23}$$

$$\textcircled{5} \quad \text{a) } \frac{1}{19} : \frac{5}{19} = \frac{1}{19} \cdot \frac{19}{5} = \frac{1 \cdot 1}{1 \cdot 5} = \frac{1}{5} \quad \text{b) } \frac{4}{13} : \frac{4}{17} = \frac{4}{13} \cdot \frac{17}{4} = \frac{1 \cdot 17}{13 \cdot 1} = 1 \frac{4}{13}$$

$$\text{c) } \frac{5}{26} : \frac{1}{8} = \frac{5}{26} \cdot \frac{8}{1} = \frac{5 \cdot 4}{13 \cdot 1} = 1 \frac{7}{13} \quad \text{d) } \frac{5}{44} : \frac{2}{11} = \frac{5}{44} \cdot \frac{11}{2} = \frac{5 \cdot 1}{4 \cdot 2} = \frac{5}{8}$$