

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

① a) $\frac{2}{3} : \frac{2}{31} =$

b) $\frac{11}{12} : \frac{1}{4} =$

c) $\frac{1}{15} : \frac{4}{9} =$

d) $\frac{1}{42} : \frac{2}{27} =$

② a) $\frac{5}{11} : \frac{1}{11} =$

b) $\frac{3}{4} : \frac{13}{18} =$

c) $\frac{10}{29} : \frac{2}{5} =$

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

③ a) $\frac{4}{15} : \frac{5}{24} =$

b) $\frac{2}{19} : \frac{4}{37} =$

c) $\frac{4}{41} : \frac{2}{13} =$

d) $\frac{13}{45} : \frac{1}{5} =$

④ a) $\frac{5}{12} : \frac{5}{12} =$

b) $\frac{2}{3} : \frac{24}{29} =$

c) $\frac{2}{7} : \frac{10}{27} =$

d) $\frac{9}{10} : \frac{5}{8} =$

⑤ a) $\frac{2}{9} : \frac{8}{39} =$

b) $\frac{7}{32} : \frac{3}{4} =$

c) $\frac{13}{20} : \frac{2}{5} =$

d) $\frac{4}{19} : \frac{4}{19} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{3} : \frac{2}{31} = \frac{2}{3} \cdot \frac{31}{2} = \frac{1 \cdot 31}{3 \cdot 1} = 10 \frac{1}{3} \quad \text{b) } \frac{11}{12} : \frac{1}{4} = \frac{11}{12} \cdot \frac{4}{1} = \frac{11 \cdot 1}{3 \cdot 1} = 3 \frac{2}{3}$$

$$\text{c) } \frac{1}{15} : \frac{4}{9} = \frac{1}{15} \cdot \frac{9}{4} = \frac{1 \cdot 3}{5 \cdot 4} = \frac{3}{20} \quad \text{d) } \frac{1}{42} : \frac{2}{27} = \frac{1}{42} \cdot \frac{27}{2} = \frac{1 \cdot 9}{14 \cdot 2} = \frac{9}{28}$$

$$\textcircled{2} \quad \text{a) } \frac{5}{11} : \frac{1}{11} = \frac{5}{11} \cdot \frac{11}{1} = \frac{5 \cdot 1}{1 \cdot 1} = 5 \quad \text{b) } \frac{3}{4} : \frac{13}{18} = \frac{3}{4} \cdot \frac{18}{13} = \frac{3 \cdot 9}{2 \cdot 13} = 1 \frac{1}{26}$$

$$\text{c) } \frac{10}{29} : \frac{2}{5} = \frac{10}{29} \cdot \frac{5}{2} = \frac{5 \cdot 5}{29 \cdot 1} = \frac{25}{29} \quad \text{d) } \frac{5}{26} : \frac{1}{8} = \frac{5}{26} \cdot \frac{8}{1} = \frac{5 \cdot 4}{13 \cdot 1} = 1 \frac{7}{13}$$

$$\textcircled{3} \quad \text{a) } \frac{4}{15} : \frac{5}{24} = \frac{4}{15} \cdot \frac{24}{5} = \frac{4 \cdot 8}{5 \cdot 5} = 1 \frac{7}{25} \quad \text{b) } \frac{2}{19} : \frac{4}{37} = \frac{2}{19} \cdot \frac{37}{4} = \frac{1 \cdot 37}{19 \cdot 2} = \frac{37}{38}$$

$$\text{c) } \frac{4}{41} : \frac{2}{13} = \frac{4}{41} \cdot \frac{13}{2} = \frac{2 \cdot 13}{41 \cdot 1} = \frac{26}{41} \quad \text{d) } \frac{13}{45} : \frac{1}{5} = \frac{13}{45} \cdot \frac{5}{1} = \frac{13 \cdot 1}{9 \cdot 1} = 1 \frac{4}{9}$$

$$\textcircled{4} \quad \text{a) } \frac{5}{12} : \frac{5}{12} = \frac{5}{12} \cdot \frac{12}{5} = \frac{1 \cdot 1}{1 \cdot 1} = 1 \quad \text{b) } \frac{2}{3} : \frac{24}{29} = \frac{2}{3} \cdot \frac{29}{24} = \frac{1 \cdot 29}{3 \cdot 12} = \frac{29}{36}$$

$$\text{c) } \frac{2}{7} : \frac{10}{27} = \frac{2}{7} \cdot \frac{27}{10} = \frac{1 \cdot 27}{7 \cdot 5} = \frac{27}{35} \quad \text{d) } \frac{9}{10} : \frac{5}{8} = \frac{9}{10} \cdot \frac{8}{5} = \frac{9 \cdot 4}{5 \cdot 5} = 1 \frac{11}{25}$$

$$\textcircled{5} \quad \text{a) } \frac{2}{9} : \frac{8}{39} = \frac{2}{9} \cdot \frac{39}{8} = \frac{1 \cdot 13}{3 \cdot 4} = 1 \frac{1}{12} \quad \text{b) } \frac{7}{32} : \frac{3}{4} = \frac{7}{32} \cdot \frac{4}{3} = \frac{7 \cdot 1}{8 \cdot 3} = \frac{7}{24}$$

$$\text{c) } \frac{13}{20} : \frac{2}{5} = \frac{13}{20} \cdot \frac{5}{2} = \frac{13 \cdot 1}{4 \cdot 2} = 1 \frac{5}{8} \quad \text{d) } \frac{4}{19} : \frac{4}{19} = \frac{4}{19} \cdot \frac{19}{4} = \frac{1 \cdot 1}{1 \cdot 1} = 1$$