

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

① a)  $\frac{2}{39} : \frac{1}{42} =$

b)  $\frac{3}{4} : \frac{6}{13} =$

c)  $\frac{3}{10} : \frac{9}{14} =$

d)  $\frac{3}{11} : \frac{3}{19} =$

② a)  $\frac{2}{9} : \frac{8}{45} =$

b)  $\frac{10}{41} : \frac{2}{3} =$

c)  $\frac{7}{16} : \frac{3}{14} =$

d)  $\frac{13}{28} : \frac{1}{4} =$

③ a)  $\frac{1}{30} : \frac{2}{45} =$

b)  $\frac{1}{18} : \frac{4}{39} =$

c)  $\frac{4}{9} : \frac{5}{12} =$

d)  $\frac{3}{10} : \frac{2}{25} =$

④ a)  $\frac{7}{15} : \frac{4}{5} =$

b)  $\frac{1}{8} : \frac{11}{42} =$

c)  $\frac{13}{36} : \frac{1}{4} =$

d)  $\frac{2}{3} : \frac{4}{43} =$

⑤ a)  $\frac{3}{13} : \frac{3}{5} =$

b)  $\frac{2}{11} : \frac{8}{41} =$

c)  $\frac{7}{24} : \frac{2}{9} =$

d)  $\frac{5}{16} : \frac{3}{10} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{39} : \frac{1}{42} = \frac{2}{39} \cdot \frac{42}{1} = \frac{2 \cdot 14}{13 \cdot 1} = 2 \frac{2}{13} \quad \text{b) } \frac{3}{4} : \frac{6}{13} = \frac{3}{4} \cdot \frac{13}{6} = \frac{1 \cdot 13}{4 \cdot 2} = 1 \frac{5}{8}$$

$$\text{c) } \frac{3}{10} : \frac{9}{14} = \frac{3}{10} \cdot \frac{14}{9} = \frac{1 \cdot 7}{5 \cdot 3} = \frac{7}{15} \quad \text{d) } \frac{3}{11} : \frac{3}{19} = \frac{3}{11} \cdot \frac{19}{3} = \frac{1 \cdot 19}{11 \cdot 1} = 1 \frac{8}{11}$$

$$\textcircled{2} \quad \text{a) } \frac{2}{9} : \frac{8}{45} = \frac{2}{9} \cdot \frac{45}{8} = \frac{1 \cdot 5}{1 \cdot 4} = 1 \frac{1}{4} \quad \text{b) } \frac{10}{41} : \frac{2}{3} = \frac{10}{41} \cdot \frac{3}{2} = \frac{5 \cdot 3}{41 \cdot 1} = \frac{15}{41}$$

$$\text{c) } \frac{7}{16} : \frac{3}{14} = \frac{7}{16} \cdot \frac{14}{3} = \frac{7 \cdot 7}{8 \cdot 3} = 2 \frac{1}{24} \quad \text{d) } \frac{13}{28} : \frac{1}{4} = \frac{13}{28} \cdot \frac{4}{1} = \frac{13 \cdot 1}{7 \cdot 1} = 1 \frac{6}{7}$$

$$\textcircled{3} \quad \text{a) } \frac{1}{30} : \frac{2}{45} = \frac{1}{30} \cdot \frac{45}{2} = \frac{1 \cdot 3}{2 \cdot 2} = \frac{3}{4} \quad \text{b) } \frac{1}{18} : \frac{4}{39} = \frac{1}{18} \cdot \frac{39}{4} = \frac{1 \cdot 13}{6 \cdot 4} = \frac{13}{24}$$

$$\text{c) } \frac{4}{9} : \frac{5}{12} = \frac{4}{9} \cdot \frac{12}{5} = \frac{4 \cdot 4}{3 \cdot 5} = 1 \frac{1}{15} \quad \text{d) } \frac{3}{10} : \frac{2}{25} = \frac{3}{10} \cdot \frac{25}{2} = \frac{3 \cdot 5}{2 \cdot 2} = 3 \frac{3}{4}$$

$$\textcircled{4} \quad \text{a) } \frac{7}{15} : \frac{4}{5} = \frac{7}{15} \cdot \frac{5}{4} = \frac{7 \cdot 1}{3 \cdot 4} = \frac{7}{12} \quad \text{b) } \frac{1}{8} : \frac{11}{42} = \frac{1}{8} \cdot \frac{42}{11} = \frac{1 \cdot 21}{4 \cdot 11} = \frac{21}{44}$$

$$\text{c) } \frac{13}{36} : \frac{1}{4} = \frac{13}{36} \cdot \frac{4}{1} = \frac{13 \cdot 1}{9 \cdot 1} = 1 \frac{4}{9} \quad \text{d) } \frac{2}{3} : \frac{4}{43} = \frac{2}{3} \cdot \frac{43}{4} = \frac{1 \cdot 43}{3 \cdot 2} = 7 \frac{1}{6}$$

$$\textcircled{5} \quad \text{a) } \frac{3}{13} : \frac{3}{5} = \frac{3}{13} \cdot \frac{5}{3} = \frac{1 \cdot 5}{13 \cdot 1} = \frac{5}{13} \quad \text{b) } \frac{2}{11} : \frac{8}{41} = \frac{2}{11} \cdot \frac{41}{8} = \frac{1 \cdot 41}{11 \cdot 4} = \frac{41}{44}$$

$$\text{c) } \frac{7}{24} : \frac{2}{9} = \frac{7}{24} \cdot \frac{9}{2} = \frac{7 \cdot 3}{8 \cdot 2} = 1 \frac{5}{16} \quad \text{d) } \frac{5}{16} : \frac{3}{10} = \frac{5}{16} \cdot \frac{10}{3} = \frac{5 \cdot 5}{8 \cdot 3} = 1 \frac{1}{24}$$