

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

① a)  $\frac{2}{17} : \frac{2}{39} =$

b)  $\frac{3}{8} : \frac{9}{31} =$

c)  $\frac{4}{7} : \frac{5}{7} =$

d)  $\frac{2}{5} : \frac{1}{5} =$

② a)  $\frac{5}{21} : \frac{2}{9} =$

b)  $\frac{7}{20} : \frac{5}{14} =$

c)  $\frac{7}{22} : \frac{1}{10} =$

d)  $\frac{1}{7} : \frac{4}{35} =$

③ a)  $\frac{1}{6} : \frac{11}{28} =$

b)  $\frac{2}{15} : \frac{2}{21} =$

c)  $\frac{23}{32} : \frac{1}{4} =$

d)  $\frac{3}{25} : \frac{3}{16} =$

④ a)  $\frac{2}{37} : \frac{2}{11} =$

b)  $\frac{3}{44} : \frac{1}{22} =$

c)  $\frac{2}{5} : \frac{6}{43} =$

d)  $\frac{1}{28} : \frac{3}{40} =$

⑤ a)  $\frac{1}{8} : \frac{7}{36} =$

b)  $\frac{7}{32} : \frac{1}{14} =$

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

d)  $\frac{2}{9} : \frac{10}{33} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{17} : \frac{2}{39} = \frac{2}{17} \cdot \frac{39}{2} = \frac{1 \cdot 39}{17 \cdot 1} = 2 \frac{5}{17} \quad \text{b) } \frac{3}{8} : \frac{9}{31} = \frac{3}{8} \cdot \frac{31}{9} = \frac{1 \cdot 31}{8 \cdot 3} = 1 \frac{7}{24}$$

$$\text{c) } \frac{4}{7} : \frac{5}{7} = \frac{4}{7} \cdot \frac{7}{5} = \frac{4 \cdot 1}{1 \cdot 5} = \frac{4}{5} \quad \text{d) } \frac{2}{5} : \frac{1}{5} = \frac{2}{5} \cdot \frac{5}{1} = \frac{2 \cdot 1}{1 \cdot 1} = 2$$

$$\textcircled{2} \quad \text{a) } \frac{5}{21} : \frac{2}{9} = \frac{5}{21} \cdot \frac{9}{2} = \frac{5 \cdot 3}{7 \cdot 2} = 1 \frac{1}{14} \quad \text{b) } \frac{7}{20} : \frac{5}{14} = \frac{7}{20} \cdot \frac{14}{5} = \frac{7 \cdot 7}{10 \cdot 5} = \frac{49}{50}$$

$$\text{c) } \frac{7}{22} : \frac{1}{10} = \frac{7}{22} \cdot \frac{10}{1} = \frac{7 \cdot 5}{11 \cdot 1} = 3 \frac{2}{11} \quad \text{d) } \frac{1}{7} : \frac{4}{35} = \frac{1}{7} \cdot \frac{35}{4} = \frac{1 \cdot 5}{1 \cdot 4} = 1 \frac{1}{4}$$

$$\textcircled{3} \quad \text{a) } \frac{1}{6} : \frac{11}{28} = \frac{1}{6} \cdot \frac{28}{11} = \frac{1 \cdot 14}{3 \cdot 11} = \frac{14}{33} \quad \text{b) } \frac{2}{15} : \frac{2}{21} = \frac{2}{15} \cdot \frac{21}{2} = \frac{1 \cdot 7}{5 \cdot 1} = 1 \frac{2}{5}$$

$$\text{c) } \frac{23}{32} : \frac{1}{4} = \frac{23}{32} \cdot \frac{4}{1} = \frac{23 \cdot 1}{8 \cdot 1} = 2 \frac{7}{8} \quad \text{d) } \frac{3}{25} : \frac{3}{16} = \frac{3}{25} \cdot \frac{16}{3} = \frac{1 \cdot 16}{25 \cdot 1} = \frac{16}{25}$$

$$\textcircled{4} \quad \text{a) } \frac{2}{37} : \frac{2}{11} = \frac{2}{37} \cdot \frac{11}{2} = \frac{1 \cdot 11}{37 \cdot 1} = \frac{11}{37} \quad \text{b) } \frac{3}{44} : \frac{1}{22} = \frac{3}{44} \cdot \frac{22}{1} = \frac{3 \cdot 1}{2 \cdot 1} = 1 \frac{1}{2}$$

$$\text{c) } \frac{2}{5} : \frac{6}{43} = \frac{2}{5} \cdot \frac{43}{6} = \frac{1 \cdot 43}{5 \cdot 3} = 2 \frac{13}{15} \quad \text{d) } \frac{1}{28} : \frac{3}{40} = \frac{1}{28} \cdot \frac{40}{3} = \frac{1 \cdot 10}{7 \cdot 3} = \frac{10}{21}$$

$$\textcircled{5} \quad \text{a) } \frac{1}{8} : \frac{7}{36} = \frac{1}{8} \cdot \frac{36}{7} = \frac{1 \cdot 9}{2 \cdot 7} = \frac{9}{14} \quad \text{b) } \frac{7}{32} : \frac{1}{14} = \frac{7}{32} \cdot \frac{14}{1} = \frac{7 \cdot 7}{16 \cdot 1} = 3 \frac{1}{16}$$

$$\text{c) } \frac{4}{5} : \frac{4}{15} = \frac{4}{5} \cdot \frac{15}{4} = \frac{1 \cdot 3}{1 \cdot 1} = 3 \quad \text{d) } \frac{2}{9} : \frac{10}{33} = \frac{2}{9} \cdot \frac{33}{10} = \frac{1 \cdot 11}{3 \cdot 5} = \frac{11}{15}$$