

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

① a) $\frac{8}{45} : \frac{1}{5} =$

b) $\frac{3}{7} : \frac{5}{14} =$

c) $\frac{2}{11} : \frac{6}{37} =$

d) $\frac{1}{18} : \frac{1}{8} =$

② a) $\frac{6}{31} : \frac{2}{5} =$

b) $\frac{1}{4} : \frac{5}{32} =$

c) $\frac{2}{9} : \frac{1}{39} =$

d) $\frac{1}{10} : \frac{4}{25} =$

③ a) $\frac{2}{3} : \frac{25}{36} =$

b) $\frac{4}{15} : \frac{2}{19} =$

c) $\frac{1}{27} : \frac{1}{45} =$

d) $\frac{1}{12} : \frac{7}{20} =$

④ a) $\frac{3}{4} : \frac{18}{25} =$

b) $\frac{1}{43} : \frac{1}{43} =$

c) $\frac{1}{8} : \frac{7}{36} =$

d) $\frac{2}{13} : \frac{4}{37} =$

⑤ a) $\frac{2}{3} : \frac{14}{41} =$

b) $\frac{8}{21} : \frac{2}{5} =$

c) $\frac{1}{6} : \frac{1}{22} =$

d) $\frac{2}{7} : \frac{6}{37} =$

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

$$\textcircled{1} \quad \text{a) } \frac{8}{45} : \frac{1}{5} = \frac{8}{45} \cdot \frac{5}{1} = \frac{8 \cdot 1}{9 \cdot 1} = \frac{8}{9} \quad \text{b) } \frac{3}{7} : \frac{5}{14} = \frac{3}{7} \cdot \frac{14}{5} = \frac{3 \cdot 2}{1 \cdot 5} = 1 \frac{1}{5}$$

$$\text{c) } \frac{2}{11} : \frac{6}{37} = \frac{2}{11} \cdot \frac{37}{6} = \frac{1 \cdot 37}{11 \cdot 3} = 1 \frac{4}{33} \quad \text{d) } \frac{1}{18} : \frac{1}{8} = \frac{1}{18} \cdot \frac{8}{1} = \frac{1 \cdot 4}{9 \cdot 1} = \frac{4}{9}$$

$$\textcircled{2} \quad \text{a) } \frac{6}{31} : \frac{2}{5} = \frac{6}{31} \cdot \frac{5}{2} = \frac{3 \cdot 5}{31 \cdot 1} = \frac{15}{31} \quad \text{b) } \frac{1}{4} : \frac{5}{32} = \frac{1}{4} \cdot \frac{32}{5} = \frac{1 \cdot 8}{1 \cdot 5} = 1 \frac{3}{5}$$

$$\text{c) } \frac{2}{9} : \frac{1}{39} = \frac{2}{9} \cdot \frac{39}{1} = \frac{2 \cdot 13}{3 \cdot 1} = 8 \frac{2}{3} \quad \text{d) } \frac{1}{10} : \frac{4}{25} = \frac{1}{10} \cdot \frac{25}{4} = \frac{1 \cdot 5}{2 \cdot 4} = \frac{5}{8}$$

$$\textcircled{3} \quad \text{a) } \frac{2}{3} : \frac{25}{36} = \frac{2}{3} \cdot \frac{36}{25} = \frac{2 \cdot 12}{1 \cdot 25} = \frac{24}{25} \quad \text{b) } \frac{4}{15} : \frac{2}{19} = \frac{4}{15} \cdot \frac{19}{2} = \frac{2 \cdot 19}{15 \cdot 1} = 2 \frac{8}{15}$$

$$\text{c) } \frac{1}{27} : \frac{1}{45} = \frac{1}{27} \cdot \frac{45}{1} = \frac{1 \cdot 5}{3 \cdot 1} = 1 \frac{2}{3} \quad \text{d) } \frac{1}{12} : \frac{7}{20} = \frac{1}{12} \cdot \frac{20}{7} = \frac{1 \cdot 5}{3 \cdot 7} = \frac{5}{21}$$

$$\textcircled{4} \quad \text{a) } \frac{3}{4} : \frac{18}{25} = \frac{3}{4} \cdot \frac{25}{18} = \frac{1 \cdot 25}{4 \cdot 6} = 1 \frac{1}{24} \quad \text{b) } \frac{1}{43} : \frac{1}{43} = \frac{1}{43} \cdot \frac{43}{1} = \frac{1 \cdot 1}{1 \cdot 1} = 1$$

$$\text{c) } \frac{1}{8} : \frac{7}{36} = \frac{1}{8} \cdot \frac{36}{7} = \frac{1 \cdot 9}{2 \cdot 7} = \frac{9}{14} \quad \text{d) } \frac{2}{13} : \frac{4}{37} = \frac{2}{13} \cdot \frac{37}{4} = \frac{1 \cdot 37}{13 \cdot 2} = 1 \frac{11}{26}$$

$$\textcircled{5} \quad \text{a) } \frac{2}{3} : \frac{14}{41} = \frac{2}{3} \cdot \frac{41}{14} = \frac{1 \cdot 41}{3 \cdot 7} = 1 \frac{20}{21} \quad \text{b) } \frac{8}{21} : \frac{2}{5} = \frac{8}{21} \cdot \frac{5}{2} = \frac{4 \cdot 5}{21 \cdot 1} = \frac{20}{21}$$

$$\text{c) } \frac{1}{6} : \frac{1}{22} = \frac{1}{6} \cdot \frac{22}{1} = \frac{1 \cdot 11}{3 \cdot 1} = 3 \frac{2}{3} \quad \text{d) } \frac{2}{7} : \frac{6}{37} = \frac{2}{7} \cdot \frac{37}{6} = \frac{1 \cdot 37}{7 \cdot 3} = 1 \frac{16}{21}$$