

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

① a) $\frac{22}{35} : \frac{2}{3} =$

b) $\frac{1}{6} : \frac{1}{20} =$

c) $\frac{2}{7} : \frac{12}{43} =$

d) $\frac{1}{9} : \frac{7}{36} =$

② a) $\frac{2}{33} : \frac{1}{15} =$

b) $\frac{6}{11} : \frac{3}{10} =$

c) $\frac{6}{7} : \frac{11}{14} =$

d) $\frac{1}{2} : \frac{7}{8} =$

③ a) $\frac{2}{25} : \frac{2}{25} =$

b) $\frac{2}{3} : \frac{14}{23} =$

c) $\frac{1}{30} : \frac{3}{26} =$

d) $\frac{2}{9} : \frac{1}{12} =$

④ a) $\frac{6}{11} : \frac{8}{15} =$

b) $\frac{1}{10} : \frac{7}{40} =$

c) $\frac{2}{5} : \frac{4}{27} =$

d) $\frac{4}{9} : \frac{2}{17} =$

⑤ a) $\frac{1}{16} : \frac{1}{2} =$

b) $\frac{1}{32} : \frac{3}{32} =$

c) $\frac{20}{23} : \frac{4}{5} =$

d) $\frac{2}{3} : \frac{12}{37} =$

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

$$\textcircled{1} \quad \text{a) } \frac{22}{35} : \frac{2}{3} = \frac{22}{35} \cdot \frac{3}{2} = \frac{11 \cdot 3}{35 \cdot 1} = \frac{33}{35} \quad \text{b) } \frac{1}{6} : \frac{1}{20} = \frac{1}{6} \cdot \frac{20}{1} = \frac{1 \cdot 10}{3 \cdot 1} = 3 \frac{1}{3}$$

$$\text{c) } \frac{2}{7} : \frac{12}{43} = \frac{2}{7} \cdot \frac{43}{12} = \frac{1 \cdot 43}{7 \cdot 6} = 1 \frac{1}{42} \quad \text{d) } \frac{1}{9} : \frac{7}{36} = \frac{1}{9} \cdot \frac{36}{7} = \frac{1 \cdot 4}{1 \cdot 7} = \frac{4}{7}$$

$$\textcircled{2} \quad \text{a) } \frac{2}{33} : \frac{1}{15} = \frac{2}{33} \cdot \frac{15}{1} = \frac{2 \cdot 5}{11 \cdot 1} = \frac{10}{11} \quad \text{b) } \frac{6}{11} : \frac{3}{10} = \frac{6}{11} \cdot \frac{10}{3} = \frac{2 \cdot 10}{11 \cdot 1} = 1 \frac{9}{11}$$

$$\text{c) } \frac{6}{7} : \frac{11}{14} = \frac{6}{7} \cdot \frac{14}{11} = \frac{6 \cdot 2}{1 \cdot 11} = 1 \frac{1}{11} \quad \text{d) } \frac{1}{2} : \frac{7}{8} = \frac{1}{2} \cdot \frac{8}{7} = \frac{1 \cdot 4}{1 \cdot 7} = \frac{4}{7}$$

$$\textcircled{3} \quad \text{a) } \frac{2}{25} : \frac{2}{25} = \frac{2}{25} \cdot \frac{25}{2} = \frac{1 \cdot 1}{1 \cdot 1} = 1 \quad \text{b) } \frac{2}{3} : \frac{14}{23} = \frac{2}{3} \cdot \frac{23}{14} = \frac{1 \cdot 23}{3 \cdot 7} = 1 \frac{2}{21}$$

$$\text{c) } \frac{1}{30} : \frac{3}{26} = \frac{1}{30} \cdot \frac{26}{3} = \frac{1 \cdot 13}{15 \cdot 3} = \frac{13}{45} \quad \text{d) } \frac{2}{9} : \frac{1}{12} = \frac{2}{9} \cdot \frac{12}{1} = \frac{2 \cdot 4}{3 \cdot 1} = 2 \frac{2}{3}$$

$$\textcircled{4} \quad \text{a) } \frac{6}{11} : \frac{8}{15} = \frac{6}{11} \cdot \frac{15}{8} = \frac{3 \cdot 15}{11 \cdot 4} = 1 \frac{1}{44} \quad \text{b) } \frac{1}{10} : \frac{7}{40} = \frac{1}{10} \cdot \frac{40}{7} = \frac{1 \cdot 4}{1 \cdot 7} = \frac{4}{7}$$

$$\text{c) } \frac{2}{5} : \frac{4}{27} = \frac{2}{5} \cdot \frac{27}{4} = \frac{1 \cdot 27}{5 \cdot 2} = 2 \frac{7}{10} \quad \text{d) } \frac{4}{9} : \frac{2}{17} = \frac{4}{9} \cdot \frac{17}{2} = \frac{2 \cdot 17}{9 \cdot 1} = 3 \frac{7}{9}$$

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

$$\text{c) } \frac{20}{23} : \frac{4}{5} = \frac{20}{23} \cdot \frac{5}{4} = \frac{5 \cdot 5}{23 \cdot 1} = 1 \frac{2}{23} \quad \text{d) } \frac{2}{3} : \frac{12}{37} = \frac{2}{3} \cdot \frac{37}{12} = \frac{1 \cdot 37}{3 \cdot 6} = 2 \frac{1}{18}$$