

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

① a) $\frac{5}{8} : \frac{5}{9} =$

b) $\frac{13}{30} : \frac{1}{2} =$

c) $\frac{2}{3} : \frac{16}{27} =$

d) $\frac{4}{5} : \frac{2}{25} =$

② a) $\frac{1}{12} : \frac{7}{39} =$

b) $\frac{1}{9} : \frac{10}{33} =$

c) $\frac{5}{6} : \frac{1}{20} =$

d) $\frac{4}{11} : \frac{4}{11} =$

③ a) $\frac{2}{7} : \frac{14}{29} =$

b) $\frac{1}{44} : \frac{1}{36} =$

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

d) $\frac{2}{3} : \frac{8}{21} =$

④ a) $\frac{2}{13} : \frac{6}{25} =$

b) $\frac{1}{32} : \frac{3}{20} =$

c) $\frac{7}{11} : \frac{2}{11} =$

d) $\frac{7}{15} : \frac{4}{9} =$

⑤ a) $\frac{1}{3} : \frac{29}{45} =$

b) $\frac{1}{6} : \frac{13}{33} =$

c) $\frac{19}{32} : \frac{1}{4} =$

d) $\frac{6}{7} : \frac{3}{16} =$

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

$$\textcircled{1} \quad \text{a) } \frac{5}{8} : \frac{5}{9} = \frac{5}{8} \cdot \frac{9}{5} = \frac{1 \cdot 9}{8 \cdot 1} = 1 \frac{1}{8} \quad \text{b) } \frac{13}{30} : \frac{1}{2} = \frac{13}{30} \cdot \frac{2}{1} = \frac{13 \cdot 1}{15 \cdot 1} = \frac{13}{15}$$

$$\text{c) } \frac{2}{3} : \frac{16}{27} = \frac{2}{3} \cdot \frac{27}{16} = \frac{1 \cdot 9}{1 \cdot 8} = 1 \frac{1}{8} \quad \text{d) } \frac{4}{5} : \frac{2}{25} = \frac{4}{5} \cdot \frac{25}{2} = \frac{2 \cdot 5}{1 \cdot 1} = 10$$

$$\textcircled{2} \quad \text{a) } \frac{1}{12} : \frac{7}{39} = \frac{1}{12} \cdot \frac{39}{7} = \frac{1 \cdot 13}{4 \cdot 7} = \frac{13}{28} \quad \text{b) } \frac{1}{9} : \frac{10}{33} = \frac{1}{9} \cdot \frac{33}{10} = \frac{1 \cdot 11}{3 \cdot 10} = \frac{11}{30}$$

$$\text{c) } \frac{5}{6} : \frac{1}{20} = \frac{5}{6} \cdot \frac{20}{1} = \frac{5 \cdot 10}{3 \cdot 1} = 16 \frac{2}{3} \quad \text{d) } \frac{4}{11} : \frac{4}{11} = \frac{4}{11} \cdot \frac{11}{4} = \frac{1 \cdot 1}{1 \cdot 1} = 1$$

$$\textcircled{3} \quad \text{a) } \frac{2}{7} : \frac{14}{29} = \frac{2}{7} \cdot \frac{29}{14} = \frac{1 \cdot 29}{7 \cdot 7} = \frac{29}{49} \quad \text{b) } \frac{1}{44} : \frac{1}{36} = \frac{1}{44} \cdot \frac{36}{1} = \frac{1 \cdot 9}{11 \cdot 1} = \frac{9}{11}$$

$$\text{c) } \frac{4}{19} : \frac{4}{19} = \frac{4}{19} \cdot \frac{19}{4} = \frac{1 \cdot 1}{1 \cdot 1} = 1 \quad \text{d) } \frac{2}{3} : \frac{8}{21} = \frac{2}{3} \cdot \frac{21}{8} = \frac{1 \cdot 7}{1 \cdot 4} = 1 \frac{3}{4}$$

$$\textcircled{4} \quad \text{a) } \frac{2}{13} : \frac{6}{25} = \frac{2}{13} \cdot \frac{25}{6} = \frac{1 \cdot 25}{13 \cdot 3} = \frac{25}{39} \quad \text{b) } \frac{1}{32} : \frac{3}{20} = \frac{1}{32} \cdot \frac{20}{3} = \frac{1 \cdot 5}{8 \cdot 3} = \frac{5}{24}$$

$$\text{c) } \frac{7}{11} : \frac{2}{11} = \frac{7}{11} \cdot \frac{11}{2} = \frac{7 \cdot 1}{1 \cdot 2} = 3 \frac{1}{2} \quad \text{d) } \frac{7}{15} : \frac{4}{9} = \frac{7}{15} \cdot \frac{9}{4} = \frac{7 \cdot 3}{5 \cdot 4} = 1 \frac{1}{20}$$

$$\textcircled{5} \quad \text{a) } \frac{1}{3} : \frac{29}{45} = \frac{1}{3} \cdot \frac{45}{29} = \frac{1 \cdot 15}{1 \cdot 29} = \frac{15}{29} \quad \text{b) } \frac{1}{6} : \frac{13}{33} = \frac{1}{6} \cdot \frac{33}{13} = \frac{1 \cdot 11}{2 \cdot 13} = \frac{11}{26}$$

$$\text{c) } \frac{19}{32} : \frac{1}{4} = \frac{19}{32} \cdot \frac{4}{1} = \frac{19 \cdot 1}{8 \cdot 1} = 2 \frac{3}{8} \quad \text{d) } \frac{6}{7} : \frac{3}{16} = \frac{6}{7} \cdot \frac{16}{3} = \frac{2 \cdot 16}{7 \cdot 1} = 4 \frac{4}{7}$$