

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

① a) $\frac{5}{44} : \frac{1}{16} =$

b) $\frac{8}{9} : \frac{6}{7} =$

c) $\frac{2}{33} : \frac{2}{21} =$

d) $\frac{2}{3} : \frac{7}{24} =$

② a) $\frac{5}{26} : \frac{3}{16} =$

b) $\frac{12}{43} : \frac{2}{5} =$

c) $\frac{3}{4} : \frac{1}{2} =$

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

③ a) $\frac{2}{17} : \frac{4}{17} =$

b) $\frac{1}{20} : \frac{1}{22} =$

c) $\frac{2}{25} : \frac{2}{27} =$

d) $\frac{4}{15} : \frac{6}{13} =$

④ a) $\frac{3}{5} : \frac{3}{14} =$

b) $\frac{7}{36} : \frac{1}{6} =$

c) $\frac{7}{18} : \frac{5}{8} =$

d) $\frac{2}{3} : \frac{6}{7} =$

⑤ a) $\frac{14}{45} : \frac{1}{5} =$

b) $\frac{4}{23} : \frac{4}{23} =$

c) $\frac{4}{29} : \frac{2}{9} =$

d) $\frac{15}{17} : \frac{3}{4} =$

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

$$\textcircled{1} \quad \text{a) } \frac{5}{44} : \frac{1}{16} = \frac{5}{44} \cdot \frac{16}{1} = \frac{5 \cdot 4}{11 \cdot 1} = 1 \frac{9}{11} \quad \text{b) } \frac{8}{9} : \frac{6}{7} = \frac{8}{9} \cdot \frac{7}{6} = \frac{4 \cdot 7}{9 \cdot 3} = 1 \frac{1}{27}$$

$$\text{c) } \frac{2}{33} : \frac{2}{21} = \frac{2}{33} \cdot \frac{21}{2} = \frac{1 \cdot 7}{11 \cdot 1} = \frac{7}{11} \quad \text{d) } \frac{2}{3} : \frac{7}{24} = \frac{2}{3} \cdot \frac{24}{7} = \frac{2 \cdot 8}{1 \cdot 7} = 2 \frac{2}{7}$$

$$\textcircled{2} \quad \text{a) } \frac{5}{26} : \frac{3}{16} = \frac{5}{26} \cdot \frac{16}{3} = \frac{5 \cdot 8}{13 \cdot 3} = 1 \frac{1}{39} \quad \text{b) } \frac{12}{43} : \frac{2}{5} = \frac{12}{43} \cdot \frac{5}{2} = \frac{6 \cdot 5}{43 \cdot 1} = \frac{30}{43}$$

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

$$\textcircled{3} \quad \text{a) } \frac{2}{17} : \frac{4}{17} = \frac{2}{17} \cdot \frac{17}{4} = \frac{1 \cdot 1}{1 \cdot 2} = \frac{1}{2} \quad \text{b) } \frac{1}{20} : \frac{1}{22} = \frac{1}{20} \cdot \frac{22}{1} = \frac{1 \cdot 11}{10 \cdot 1} = 1 \frac{1}{10}$$

$$\text{c) } \frac{2}{25} : \frac{2}{27} = \frac{2}{25} \cdot \frac{27}{2} = \frac{1 \cdot 27}{25 \cdot 1} = 1 \frac{2}{25} \quad \text{d) } \frac{4}{15} : \frac{6}{13} = \frac{4}{15} \cdot \frac{13}{6} = \frac{2 \cdot 13}{15 \cdot 3} = \frac{26}{45}$$

$$\textcircled{4} \quad \text{a) } \frac{3}{5} : \frac{3}{14} = \frac{3}{5} \cdot \frac{14}{3} = \frac{1 \cdot 14}{5 \cdot 1} = 2 \frac{4}{5} \quad \text{b) } \frac{7}{36} : \frac{1}{6} = \frac{7}{36} \cdot \frac{6}{1} = \frac{7 \cdot 1}{6 \cdot 1} = 1 \frac{1}{6}$$

$$\text{c) } \frac{7}{18} : \frac{5}{8} = \frac{7}{18} \cdot \frac{8}{5} = \frac{7 \cdot 4}{9 \cdot 5} = \frac{28}{45} \quad \text{d) } \frac{2}{3} : \frac{6}{7} = \frac{2}{3} \cdot \frac{7}{6} = \frac{1 \cdot 7}{3 \cdot 3} = \frac{7}{9}$$

$$\textcircled{5} \quad \text{a) } \frac{14}{45} : \frac{1}{5} = \frac{14}{45} \cdot \frac{5}{1} = \frac{14 \cdot 1}{9 \cdot 1} = 1 \frac{5}{9} \quad \text{b) } \frac{4}{23} : \frac{4}{23} = \frac{4}{23} \cdot \frac{23}{4} = \frac{1 \cdot 1}{1 \cdot 1} = 1$$

$$\text{c) } \frac{4}{29} : \frac{2}{9} = \frac{4}{29} \cdot \frac{9}{2} = \frac{2 \cdot 9}{29 \cdot 1} = \frac{18}{29} \quad \text{d) } \frac{15}{17} : \frac{3}{4} = \frac{15}{17} \cdot \frac{4}{3} = \frac{5 \cdot 4}{17 \cdot 1} = 1 \frac{3}{17}$$