

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

① a) $\frac{5}{17} : \frac{5}{11} =$

b) $\frac{7}{12} : \frac{1}{2} =$

c) $\frac{3}{4} : \frac{13}{30} =$

d) $\frac{1}{14} : \frac{5}{36} =$

② a) $\frac{2}{23} : \frac{4}{21} =$

b) $\frac{4}{7} : \frac{6}{19} =$

c) $\frac{19}{20} : \frac{1}{4} =$

d) $\frac{6}{17} : \frac{3}{5} =$

③ a) $\frac{1}{9} : \frac{2}{39} =$

b) $\frac{1}{6} : \frac{1}{30} =$

c) $\frac{6}{11} : \frac{9}{11} =$

d) $\frac{3}{20} : \frac{3}{32} =$

④ a) $\frac{3}{4} : \frac{15}{31} =$

b) $\frac{8}{43} : \frac{2}{3} =$

c) $\frac{3}{8} : \frac{11}{28} =$

d) $\frac{8}{35} : \frac{1}{10} =$

⑤ a) $\frac{1}{2} : \frac{9}{20} =$

b) $\frac{1}{4} : \frac{17}{18} =$

c) $\frac{2}{15} : \frac{4}{13} =$

d) $\frac{2}{29} : \frac{2}{29} =$

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

$$\textcircled{1} \quad \text{a) } \frac{5}{17} : \frac{5}{11} = \frac{5}{17} \cdot \frac{11}{5} = \frac{1 \cdot 11}{17 \cdot 1} = \frac{11}{17} \quad \text{b) } \frac{7}{12} : \frac{1}{2} = \frac{7}{12} \cdot \frac{2}{1} = \frac{7 \cdot 1}{6 \cdot 1} = 1 \frac{1}{6}$$

$$\text{c) } \frac{3}{4} : \frac{13}{30} = \frac{3}{4} \cdot \frac{30}{13} = \frac{3 \cdot 15}{2 \cdot 13} = 1 \frac{19}{26} \quad \text{d) } \frac{1}{14} : \frac{5}{36} = \frac{1}{14} \cdot \frac{36}{5} = \frac{1 \cdot 18}{7 \cdot 5} = \frac{18}{35}$$

$$\textcircled{2} \quad \text{a) } \frac{2}{23} : \frac{4}{21} = \frac{2}{23} \cdot \frac{21}{4} = \frac{1 \cdot 21}{23 \cdot 2} = \frac{21}{46} \quad \text{b) } \frac{4}{7} : \frac{6}{19} = \frac{4}{7} \cdot \frac{19}{6} = \frac{2 \cdot 19}{7 \cdot 3} = 1 \frac{17}{21}$$

$$\text{c) } \frac{19}{20} : \frac{1}{4} = \frac{19}{20} \cdot \frac{4}{1} = \frac{19 \cdot 1}{5 \cdot 1} = 3 \frac{4}{5} \quad \text{d) } \frac{6}{17} : \frac{3}{5} = \frac{6}{17} \cdot \frac{5}{3} = \frac{2 \cdot 5}{17 \cdot 1} = \frac{10}{17}$$

$$\textcircled{3} \quad \text{a) } \frac{1}{9} : \frac{2}{39} = \frac{1}{9} \cdot \frac{39}{2} = \frac{1 \cdot 13}{3 \cdot 2} = 2 \frac{1}{6} \quad \text{b) } \frac{1}{6} : \frac{1}{30} = \frac{1}{6} \cdot \frac{30}{1} = \frac{1 \cdot 5}{1 \cdot 1} = 5$$

$$\text{c) } \frac{6}{11} : \frac{9}{11} = \frac{6}{11} \cdot \frac{11}{9} = \frac{2 \cdot 1}{1 \cdot 3} = \frac{2}{3} \quad \text{d) } \frac{3}{20} : \frac{3}{32} = \frac{3}{20} \cdot \frac{32}{3} = \frac{1 \cdot 8}{5 \cdot 1} = 1 \frac{3}{5}$$

$$\textcircled{4} \quad \text{a) } \frac{3}{4} : \frac{15}{31} = \frac{3}{4} \cdot \frac{31}{15} = \frac{1 \cdot 31}{4 \cdot 5} = 1 \frac{11}{20} \quad \text{b) } \frac{8}{43} : \frac{2}{3} = \frac{8}{43} \cdot \frac{3}{2} = \frac{4 \cdot 3}{43 \cdot 1} = \frac{12}{43}$$

$$\text{c) } \frac{3}{8} : \frac{11}{28} = \frac{3}{8} \cdot \frac{28}{11} = \frac{3 \cdot 7}{2 \cdot 11} = \frac{21}{22} \quad \text{d) } \frac{8}{35} : \frac{1}{10} = \frac{8}{35} \cdot \frac{10}{1} = \frac{8 \cdot 2}{7 \cdot 1} = 2 \frac{2}{7}$$

$$\textcircled{5} \quad \text{a) } \frac{1}{2} : \frac{9}{20} = \frac{1}{2} \cdot \frac{20}{9} = \frac{1 \cdot 10}{1 \cdot 9} = 1 \frac{1}{9} \quad \text{b) } \frac{1}{4} : \frac{17}{18} = \frac{1}{4} \cdot \frac{18}{17} = \frac{1 \cdot 9}{2 \cdot 17} = \frac{9}{34}$$

$$\text{c) } \frac{2}{15} : \frac{4}{13} = \frac{2}{15} \cdot \frac{13}{4} = \frac{1 \cdot 13}{15 \cdot 2} = \frac{13}{30} \quad \text{d) } \frac{2}{29} : \frac{2}{29} = \frac{2}{29} \cdot \frac{29}{2} = \frac{1 \cdot 1}{1 \cdot 1} = 1$$