

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

① a) $\frac{2}{43} : \frac{2}{3} =$

b) $\frac{6}{7} : \frac{3}{13} =$

c) $\frac{3}{5} : \frac{1}{30} =$

d) $\frac{1}{14} : \frac{7}{24} =$

② a) $\frac{8}{29} : \frac{2}{9} =$

b) $\frac{4}{17} : \frac{3}{17} =$

c) $\frac{7}{13} : \frac{7}{10} =$

d) $\frac{1}{3} : \frac{5}{24} =$

③ a) $\frac{2}{5} : \frac{4}{31} =$

b) $\frac{4}{11} : \frac{9}{22} =$

c) $\frac{5}{33} : \frac{1}{12} =$

d) $\frac{3}{4} : \frac{11}{28} =$

④ a) $\frac{4}{7} : \frac{2}{3} =$

b) $\frac{23}{24} : \frac{1}{2} =$

c) $\frac{4}{15} : \frac{6}{23} =$

d) $\frac{7}{10} : \frac{4}{5} =$

⑤ a) $\frac{4}{11} : \frac{2}{13} =$

b) $\frac{2}{7} : \frac{6}{29} =$

c) $\frac{1}{18} : \frac{5}{44} =$

d) $\frac{9}{22} : \frac{3}{8} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{43} : \frac{2}{3} = \frac{2}{43} \cdot \frac{3}{2} = \frac{1 \cdot 3}{43 \cdot 1} = \frac{3}{43} \quad \text{b) } \frac{6}{7} : \frac{3}{13} = \frac{6}{7} \cdot \frac{13}{3} = \frac{2 \cdot 13}{7 \cdot 1} = 3 \frac{5}{7}$$

$$\text{c) } \frac{3}{5} : \frac{1}{30} = \frac{3}{5} \cdot \frac{30}{1} = \frac{3 \cdot 6}{1 \cdot 1} = 18 \quad \text{d) } \frac{1}{14} : \frac{7}{24} = \frac{1}{14} \cdot \frac{24}{7} = \frac{1 \cdot 12}{7 \cdot 7} = \frac{12}{49}$$

$$\textcircled{2} \quad \text{a) } \frac{8}{29} : \frac{2}{9} = \frac{8}{29} \cdot \frac{9}{2} = \frac{4 \cdot 9}{29 \cdot 1} = 1 \frac{7}{29} \quad \text{b) } \frac{4}{17} : \frac{3}{17} = \frac{4}{17} \cdot \frac{17}{3} = \frac{4 \cdot 1}{1 \cdot 3} = 1 \frac{1}{3}$$

$$\text{c) } \frac{7}{13} : \frac{7}{10} = \frac{7}{13} \cdot \frac{10}{7} = \frac{1 \cdot 10}{13 \cdot 1} = \frac{10}{13} \quad \text{d) } \frac{1}{3} : \frac{5}{24} = \frac{1}{3} \cdot \frac{24}{5} = \frac{1 \cdot 8}{1 \cdot 5} = 1 \frac{3}{5}$$

$$\textcircled{3} \quad \text{a) } \frac{2}{5} : \frac{4}{31} = \frac{2}{5} \cdot \frac{31}{4} = \frac{1 \cdot 31}{5 \cdot 2} = 3 \frac{1}{10} \quad \text{b) } \frac{4}{11} : \frac{9}{22} = \frac{4}{11} \cdot \frac{22}{9} = \frac{4 \cdot 2}{1 \cdot 9} = \frac{8}{9}$$

$$\text{c) } \frac{5}{33} : \frac{1}{12} = \frac{5}{33} \cdot \frac{12}{1} = \frac{5 \cdot 4}{11 \cdot 1} = 1 \frac{9}{11} \quad \text{d) } \frac{3}{4} : \frac{11}{28} = \frac{3}{4} \cdot \frac{28}{11} = \frac{3 \cdot 7}{1 \cdot 11} = 1 \frac{10}{11}$$

$$\textcircled{4} \quad \text{a) } \frac{4}{7} : \frac{2}{3} = \frac{4}{7} \cdot \frac{3}{2} = \frac{2 \cdot 3}{7 \cdot 1} = \frac{6}{7} \quad \text{b) } \frac{23}{24} : \frac{1}{2} = \frac{23}{24} \cdot \frac{2}{1} = \frac{23 \cdot 1}{12 \cdot 1} = 1 \frac{11}{12}$$

$$\text{c) } \frac{4}{15} : \frac{6}{23} = \frac{4}{15} \cdot \frac{23}{6} = \frac{2 \cdot 23}{15 \cdot 3} = 1 \frac{1}{45} \quad \text{d) } \frac{7}{10} : \frac{4}{5} = \frac{7}{10} \cdot \frac{5}{4} = \frac{7 \cdot 1}{2 \cdot 4} = \frac{7}{8}$$

$$\textcircled{5} \quad \text{a) } \frac{4}{11} : \frac{2}{13} = \frac{4}{11} \cdot \frac{13}{2} = \frac{2 \cdot 13}{11 \cdot 1} = 2 \frac{4}{11} \quad \text{b) } \frac{2}{7} : \frac{6}{29} = \frac{2}{7} \cdot \frac{29}{6} = \frac{1 \cdot 29}{7 \cdot 3} = 1 \frac{8}{21}$$

$$\text{c) } \frac{1}{18} : \frac{5}{44} = \frac{1}{18} \cdot \frac{44}{5} = \frac{1 \cdot 22}{9 \cdot 5} = \frac{22}{45} \quad \text{d) } \frac{9}{22} : \frac{3}{8} = \frac{9}{22} \cdot \frac{8}{3} = \frac{3 \cdot 4}{11 \cdot 1} = 1 \frac{1}{11}$$