

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

① a) $\frac{10}{11} : \frac{2}{3} =$

b) $\frac{3}{5} : \frac{6}{31} =$

c) $\frac{2}{7} : \frac{4}{7} =$

d) $\frac{9}{14} : \frac{1}{4} =$

② a) $\frac{5}{8} : \frac{7}{20} =$

b) $\frac{4}{41} : \frac{2}{5} =$

c) $\frac{1}{27} : \frac{1}{33} =$

d) $\frac{2}{9} : \frac{6}{37} =$

③ a) $\frac{7}{45} : \frac{2}{3} =$

b) $\frac{6}{25} : \frac{4}{7} =$

c) $\frac{6}{17} : \frac{3}{11} =$

d) $\frac{5}{12} : \frac{1}{20} =$

④ a) $\frac{1}{2} : \frac{29}{34} =$

b) $\frac{3}{23} : \frac{3}{26} =$

c) $\frac{3}{7} : \frac{1}{21} =$

d) $\frac{2}{43} : \frac{2}{27} =$

⑤ a) $\frac{2}{9} : \frac{4}{25} =$

b) $\frac{5}{8} : \frac{3}{10} =$

c) $\frac{2}{5} : \frac{18}{31} =$

d) $\frac{11}{15} : \frac{1}{3} =$

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

$$\textcircled{1} \quad \text{a) } \frac{10}{11} : \frac{2}{3} = \frac{10}{11} \cdot \frac{3}{2} = \frac{5 \cdot 3}{11 \cdot 1} = 1 \frac{4}{11} \quad \text{b) } \frac{3}{5} : \frac{6}{31} = \frac{3}{5} \cdot \frac{31}{6} = \frac{1 \cdot 31}{5 \cdot 2} = 3 \frac{1}{10}$$

$$\text{c) } \frac{2}{7} : \frac{4}{7} = \frac{2}{7} \cdot \frac{7}{4} = \frac{1 \cdot 1}{1 \cdot 2} = \frac{1}{2} \quad \text{d) } \frac{9}{14} : \frac{1}{4} = \frac{9}{14} \cdot \frac{4}{1} = \frac{9 \cdot 2}{7 \cdot 1} = 2 \frac{4}{7}$$

$$\textcircled{2} \quad \text{a) } \frac{5}{8} : \frac{7}{20} = \frac{5}{8} \cdot \frac{20}{7} = \frac{5 \cdot 5}{2 \cdot 7} = 1 \frac{11}{14} \quad \text{b) } \frac{4}{41} : \frac{2}{5} = \frac{4}{41} \cdot \frac{5}{2} = \frac{2 \cdot 5}{41 \cdot 1} = \frac{10}{41}$$

$$\text{c) } \frac{1}{27} : \frac{1}{33} = \frac{1}{27} \cdot \frac{33}{1} = \frac{1 \cdot 11}{9 \cdot 1} = 1 \frac{2}{9} \quad \text{d) } \frac{2}{9} : \frac{6}{37} = \frac{2}{9} \cdot \frac{37}{6} = \frac{1 \cdot 37}{9 \cdot 3} = 1 \frac{10}{27}$$

$$\textcircled{3} \quad \text{a) } \frac{7}{45} : \frac{2}{3} = \frac{7}{45} \cdot \frac{3}{2} = \frac{7 \cdot 1}{15 \cdot 2} = \frac{7}{30} \quad \text{b) } \frac{6}{25} : \frac{4}{7} = \frac{6}{25} \cdot \frac{7}{4} = \frac{3 \cdot 7}{25 \cdot 2} = \frac{21}{50}$$

$$\text{c) } \frac{6}{17} : \frac{3}{11} = \frac{6}{17} \cdot \frac{11}{3} = \frac{2 \cdot 11}{17 \cdot 1} = 1 \frac{5}{17} \quad \text{d) } \frac{5}{12} : \frac{1}{20} = \frac{5}{12} \cdot \frac{20}{1} = \frac{5 \cdot 5}{3 \cdot 1} = 8 \frac{1}{3}$$

$$\textcircled{4} \quad \text{a) } \frac{1}{2} : \frac{29}{34} = \frac{1}{2} \cdot \frac{34}{29} = \frac{1 \cdot 17}{1 \cdot 29} = \frac{17}{29} \quad \text{b) } \frac{3}{23} : \frac{3}{26} = \frac{3}{23} \cdot \frac{26}{3} = \frac{1 \cdot 26}{23 \cdot 1} = 1 \frac{3}{23}$$

$$\text{c) } \frac{3}{7} : \frac{1}{21} = \frac{3}{7} \cdot \frac{21}{1} = \frac{3 \cdot 3}{1 \cdot 1} = 9 \quad \text{d) } \frac{2}{43} : \frac{2}{27} = \frac{2}{43} \cdot \frac{27}{2} = \frac{1 \cdot 27}{43 \cdot 1} = \frac{27}{43}$$

$$\textcircled{5} \quad \text{a) } \frac{2}{9} : \frac{4}{25} = \frac{2}{9} \cdot \frac{25}{4} = \frac{1 \cdot 25}{9 \cdot 2} = 1 \frac{7}{18} \quad \text{b) } \frac{5}{8} : \frac{3}{10} = \frac{5}{8} \cdot \frac{10}{3} = \frac{5 \cdot 5}{4 \cdot 3} = 2 \frac{1}{12}$$

$$\text{c) } \frac{2}{5} : \frac{18}{31} = \frac{2}{5} \cdot \frac{31}{18} = \frac{1 \cdot 31}{5 \cdot 9} = \frac{31}{45} \quad \text{d) } \frac{11}{15} : \frac{1}{3} = \frac{11}{15} \cdot \frac{3}{1} = \frac{11 \cdot 1}{5 \cdot 1} = 2 \frac{1}{5}$$