

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

① a) $\frac{29}{34} : \frac{1}{2} =$

b) $\frac{25}{28} : \frac{3}{4} =$

c) $\frac{7}{33} : \frac{2}{9} =$

d) $\frac{4}{25} : \frac{4}{19} =$

② a) $\frac{1}{8} : \frac{1}{26} =$

b) $\frac{2}{13} : \frac{2}{45} =$

c) $\frac{1}{14} : \frac{7}{44} =$

d) $\frac{3}{34} : \frac{1}{24} =$

③ a) $\frac{4}{35} : \frac{2}{25} =$

b) $\frac{3}{5} : \frac{15}{23} =$

c) $\frac{5}{18} : \frac{1}{4} =$

d) $\frac{13}{15} : \frac{5}{6} =$

④ a) $\frac{1}{25} : \frac{3}{10} =$

b) $\frac{1}{5} : \frac{11}{30} =$

c) $\frac{3}{4} : \frac{1}{20} =$

d) $\frac{3}{22} : \frac{3}{29} =$

⑤ a) $\frac{1}{2} : \frac{17}{18} =$

b) $\frac{2}{23} : \frac{4}{39} =$

c) $\frac{3}{20} : \frac{1}{26} =$

d) $\frac{2}{5} : \frac{16}{41} =$

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

$$\textcircled{1} \quad \text{a) } \frac{29}{34} : \frac{1}{2} = \frac{29}{34} \cdot \frac{2}{1} = \frac{29 \cdot 1}{17 \cdot 1} = 1 \frac{12}{17} \quad \text{b) } \frac{25}{28} : \frac{3}{4} = \frac{25}{28} \cdot \frac{4}{3} = \frac{25 \cdot 1}{7 \cdot 3} = 1 \frac{4}{21}$$

$$\text{c) } \frac{7}{33} : \frac{2}{9} = \frac{7}{33} \cdot \frac{9}{2} = \frac{7 \cdot 3}{11 \cdot 2} = \frac{21}{22} \quad \text{d) } \frac{4}{25} : \frac{4}{19} = \frac{4}{25} \cdot \frac{19}{4} = \frac{1 \cdot 19}{25 \cdot 1} = \frac{19}{25}$$

$$\textcircled{2} \quad \text{a) } \frac{1}{8} : \frac{1}{26} = \frac{1}{8} \cdot \frac{26}{1} = \frac{1 \cdot 13}{4 \cdot 1} = 3 \frac{1}{4} \quad \text{b) } \frac{2}{13} : \frac{2}{45} = \frac{2}{13} \cdot \frac{45}{2} = \frac{1 \cdot 45}{13 \cdot 1} = 3 \frac{6}{13}$$

$$\text{c) } \frac{1}{14} : \frac{7}{44} = \frac{1}{14} \cdot \frac{44}{7} = \frac{1 \cdot 22}{7 \cdot 7} = \frac{22}{49} \quad \text{d) } \frac{3}{34} : \frac{1}{24} = \frac{3}{34} \cdot \frac{24}{1} = \frac{3 \cdot 12}{17 \cdot 1} = 2 \frac{2}{17}$$

$$\textcircled{3} \quad \text{a) } \frac{4}{35} : \frac{2}{25} = \frac{4}{35} \cdot \frac{25}{2} = \frac{2 \cdot 5}{7 \cdot 1} = 1 \frac{3}{7} \quad \text{b) } \frac{3}{5} : \frac{15}{23} = \frac{3}{5} \cdot \frac{23}{15} = \frac{1 \cdot 23}{5 \cdot 5} = \frac{23}{25}$$

$$\text{c) } \frac{5}{18} : \frac{1}{4} = \frac{5}{18} \cdot \frac{4}{1} = \frac{5 \cdot 2}{9 \cdot 1} = 1 \frac{1}{9} \quad \text{d) } \frac{13}{15} : \frac{5}{6} = \frac{13}{15} \cdot \frac{6}{5} = \frac{13 \cdot 2}{5 \cdot 5} = 1 \frac{1}{25}$$

$$\textcircled{4} \quad \text{a) } \frac{1}{25} : \frac{3}{10} = \frac{1}{25} \cdot \frac{10}{3} = \frac{1 \cdot 2}{5 \cdot 3} = \frac{2}{15} \quad \text{b) } \frac{1}{5} : \frac{11}{30} = \frac{1}{5} \cdot \frac{30}{11} = \frac{1 \cdot 6}{1 \cdot 11} = \frac{6}{11}$$

$$\text{c) } \frac{3}{4} : \frac{1}{20} = \frac{3}{4} \cdot \frac{20}{1} = \frac{3 \cdot 5}{1 \cdot 1} = 15 \quad \text{d) } \frac{3}{22} : \frac{3}{29} = \frac{3}{22} \cdot \frac{29}{3} = \frac{1 \cdot 29}{22 \cdot 1} = 1 \frac{7}{22}$$

$$\textcircled{5} \quad \text{a) } \frac{1}{2} : \frac{17}{18} = \frac{1}{2} \cdot \frac{18}{17} = \frac{1 \cdot 9}{1 \cdot 17} = \frac{9}{17} \quad \text{b) } \frac{2}{23} : \frac{4}{39} = \frac{2}{23} \cdot \frac{39}{4} = \frac{1 \cdot 39}{23 \cdot 2} = \frac{39}{46}$$

$$\text{c) } \frac{3}{20} : \frac{1}{26} = \frac{3}{20} \cdot \frac{26}{1} = \frac{3 \cdot 13}{10 \cdot 1} = 3 \frac{9}{10} \quad \text{d) } \frac{2}{5} : \frac{16}{41} = \frac{2}{5} \cdot \frac{41}{16} = \frac{1 \cdot 41}{5 \cdot 8} = 1 \frac{1}{40}$$