

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

① a) $\frac{2}{41} : \frac{2}{37} =$

b) $\frac{21}{22} : \frac{1}{4} =$

c) $\frac{4}{11} : \frac{6}{17} =$

d) $\frac{1}{19} : \frac{4}{19} =$

② a) $\frac{25}{34} : \frac{1}{2} =$

b) $\frac{16}{31} : \frac{2}{5} =$

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

d) $\frac{19}{39} : \frac{1}{3} =$

③ a) $\frac{8}{11} : \frac{2}{7} =$

b) $\frac{9}{20} : \frac{4}{5} =$

c) $\frac{5}{6} : \frac{5}{12} =$

d) $\frac{6}{43} : \frac{2}{15} =$

④ a) $\frac{3}{13} : \frac{6}{7} =$

b) $\frac{10}{19} : \frac{5}{8} =$

c) $\frac{2}{3} : \frac{4}{41} =$

d) $\frac{5}{9} : \frac{1}{18} =$

⑤ a) $\frac{2}{5} : \frac{14}{17} =$

b) $\frac{3}{11} : \frac{3}{16} =$

c) $\frac{5}{6} : \frac{11}{15} =$

d) $\frac{1}{34} : \frac{1}{14} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{41} : \frac{2}{37} = \frac{2}{41} \cdot \frac{37}{2} = \frac{1 \cdot 37}{41 \cdot 1} = \frac{37}{41} \quad \text{b) } \frac{21}{22} : \frac{1}{4} = \frac{21}{22} \cdot \frac{4}{1} = \frac{21 \cdot 2}{11 \cdot 1} = 3 \frac{9}{11}$$

$$\text{c) } \frac{4}{11} : \frac{6}{17} = \frac{4}{11} \cdot \frac{17}{6} = \frac{2 \cdot 17}{11 \cdot 3} = 1 \frac{1}{33} \quad \text{d) } \frac{1}{19} : \frac{4}{19} = \frac{1}{19} \cdot \frac{19}{4} = \frac{1 \cdot 1}{1 \cdot 4} = \frac{1}{4}$$

$$\textcircled{2} \quad \text{a) } \frac{25}{34} : \frac{1}{2} = \frac{25}{34} \cdot \frac{2}{1} = \frac{25 \cdot 1}{17 \cdot 1} = 1 \frac{8}{17} \quad \text{b) } \frac{16}{31} : \frac{2}{5} = \frac{16}{31} \cdot \frac{5}{2} = \frac{8 \cdot 5}{31 \cdot 1} = 1 \frac{9}{31}$$

$$\text{c) } \frac{6}{23} : \frac{4}{15} = \frac{6}{23} \cdot \frac{15}{4} = \frac{3 \cdot 15}{23 \cdot 2} = \frac{45}{46} \quad \text{d) } \frac{19}{39} : \frac{1}{3} = \frac{19}{39} \cdot \frac{3}{1} = \frac{19 \cdot 1}{13 \cdot 1} = 1 \frac{6}{13}$$

$$\textcircled{3} \quad \text{a) } \frac{8}{11} : \frac{2}{7} = \frac{8}{11} \cdot \frac{7}{2} = \frac{4 \cdot 7}{11 \cdot 1} = 2 \frac{6}{11} \quad \text{b) } \frac{9}{20} : \frac{4}{5} = \frac{9}{20} \cdot \frac{5}{4} = \frac{9 \cdot 1}{4 \cdot 4} = \frac{9}{16}$$

$$\text{c) } \frac{5}{6} : \frac{5}{12} = \frac{5}{6} \cdot \frac{12}{5} = \frac{1 \cdot 2}{1 \cdot 1} = 2 \quad \text{d) } \frac{6}{43} : \frac{2}{15} = \frac{6}{43} \cdot \frac{15}{2} = \frac{3 \cdot 15}{43 \cdot 1} = 1 \frac{2}{43}$$

$$\textcircled{4} \quad \text{a) } \frac{3}{13} : \frac{6}{7} = \frac{3}{13} \cdot \frac{7}{6} = \frac{1 \cdot 7}{13 \cdot 2} = \frac{7}{26} \quad \text{b) } \frac{10}{19} : \frac{5}{8} = \frac{10}{19} \cdot \frac{8}{5} = \frac{2 \cdot 8}{19 \cdot 1} = \frac{16}{19}$$

$$\text{c) } \frac{2}{3} : \frac{4}{41} = \frac{2}{3} \cdot \frac{41}{4} = \frac{1 \cdot 41}{3 \cdot 2} = 6 \frac{5}{6} \quad \text{d) } \frac{5}{9} : \frac{1}{18} = \frac{5}{9} \cdot \frac{18}{1} = \frac{5 \cdot 2}{1 \cdot 1} = 10$$

$$\textcircled{5} \quad \text{a) } \frac{2}{5} : \frac{14}{17} = \frac{2}{5} \cdot \frac{17}{14} = \frac{1 \cdot 17}{5 \cdot 7} = \frac{17}{35} \quad \text{b) } \frac{3}{11} : \frac{3}{16} = \frac{3}{11} \cdot \frac{16}{3} = \frac{1 \cdot 16}{11 \cdot 1} = 1 \frac{5}{11}$$

$$\text{c) } \frac{5}{6} : \frac{11}{15} = \frac{5}{6} \cdot \frac{15}{11} = \frac{5 \cdot 5}{2 \cdot 11} = 1 \frac{3}{22} \quad \text{d) } \frac{1}{34} : \frac{1}{14} = \frac{1}{34} \cdot \frac{14}{1} = \frac{1 \cdot 7}{17 \cdot 1} = \frac{7}{17}$$