

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

① a) $\frac{19}{30} : \frac{1}{2} =$

b) $\frac{7}{25} : \frac{3}{10} =$

c) $\frac{1}{5} : \frac{17}{40} =$

d) $\frac{1}{3} : \frac{7}{39} =$

② a) $\frac{5}{18} : \frac{5}{19} =$

b) $\frac{1}{44} : \frac{1}{16} =$

c) $\frac{10}{11} : \frac{2}{5} =$

d) $\frac{2}{7} : \frac{4}{25} =$

③ a) $\frac{3}{20} : \frac{1}{2} =$

b) $\frac{7}{8} : \frac{5}{12} =$

c) $\frac{2}{11} : \frac{6}{41} =$

d) $\frac{1}{45} : \frac{1}{33} =$

④ a) $\frac{3}{29} : \frac{3}{13} =$

b) $\frac{3}{8} : \frac{9}{25} =$

c) $\frac{1}{6} : \frac{1}{42} =$

d) $\frac{8}{35} : \frac{2}{5} =$

⑤ a) $\frac{9}{11} : \frac{6}{7} =$

b) $\frac{7}{15} : \frac{1}{12} =$

c) $\frac{2}{3} : \frac{10}{43} =$

d) $\frac{4}{25} : \frac{4}{13} =$

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

$$\textcircled{1} \quad \text{a) } \frac{19}{30} : \frac{1}{2} = \frac{19}{30} \cdot \frac{2}{1} = \frac{19 \cdot 2}{15 \cdot 1} = 1 \frac{4}{15} \quad \text{b) } \frac{7}{25} : \frac{3}{10} = \frac{7}{25} \cdot \frac{10}{3} = \frac{7 \cdot 2}{5 \cdot 3} = \frac{14}{15}$$

$$\text{c) } \frac{1}{5} : \frac{17}{40} = \frac{1}{5} \cdot \frac{40}{17} = \frac{1 \cdot 8}{1 \cdot 17} = \frac{8}{17} \quad \text{d) } \frac{1}{3} : \frac{7}{39} = \frac{1}{3} \cdot \frac{39}{7} = \frac{1 \cdot 13}{1 \cdot 7} = 1 \frac{6}{7}$$

$$\textcircled{2} \quad \text{a) } \frac{5}{18} : \frac{5}{19} = \frac{5}{18} \cdot \frac{19}{5} = \frac{1 \cdot 19}{18 \cdot 1} = 1 \frac{1}{18} \quad \text{b) } \frac{1}{44} : \frac{1}{16} = \frac{1}{44} \cdot \frac{16}{1} = \frac{1 \cdot 4}{11 \cdot 1} = \frac{4}{11}$$

$$\text{c) } \frac{10}{11} : \frac{2}{5} = \frac{10}{11} \cdot \frac{5}{2} = \frac{5 \cdot 5}{11 \cdot 1} = 2 \frac{3}{11} \quad \text{d) } \frac{2}{7} : \frac{4}{25} = \frac{2}{7} \cdot \frac{25}{4} = \frac{1 \cdot 25}{7 \cdot 2} = 1 \frac{11}{14}$$

$$\textcircled{3} \quad \text{a) } \frac{3}{20} : \frac{1}{2} = \frac{3}{20} \cdot \frac{2}{1} = \frac{3 \cdot 1}{10 \cdot 1} = \frac{3}{10} \quad \text{b) } \frac{7}{8} : \frac{5}{12} = \frac{7}{8} \cdot \frac{12}{5} = \frac{7 \cdot 3}{2 \cdot 5} = 2 \frac{1}{10}$$

$$\text{c) } \frac{2}{11} : \frac{6}{41} = \frac{2}{11} \cdot \frac{41}{6} = \frac{1 \cdot 41}{11 \cdot 3} = 1 \frac{8}{33} \quad \text{d) } \frac{1}{45} : \frac{1}{33} = \frac{1}{45} \cdot \frac{33}{1} = \frac{1 \cdot 11}{15 \cdot 1} = \frac{11}{15}$$

$$\textcircled{4} \quad \text{a) } \frac{3}{29} : \frac{3}{13} = \frac{3}{29} \cdot \frac{13}{3} = \frac{1 \cdot 13}{29 \cdot 1} = \frac{13}{29} \quad \text{b) } \frac{3}{8} : \frac{9}{25} = \frac{3}{8} \cdot \frac{25}{9} = \frac{1 \cdot 25}{8 \cdot 3} = 1 \frac{1}{24}$$

$$\text{c) } \frac{1}{6} : \frac{1}{42} = \frac{1}{6} \cdot \frac{42}{1} = \frac{1 \cdot 7}{1 \cdot 1} = 7 \quad \text{d) } \frac{8}{35} : \frac{2}{5} = \frac{8}{35} \cdot \frac{5}{2} = \frac{4 \cdot 1}{7 \cdot 1} = \frac{4}{7}$$

$$\textcircled{5} \quad \text{a) } \frac{9}{11} : \frac{6}{7} = \frac{9}{11} \cdot \frac{7}{6} = \frac{3 \cdot 7}{11 \cdot 2} = \frac{21}{22} \quad \text{b) } \frac{7}{15} : \frac{1}{12} = \frac{7}{15} \cdot \frac{12}{1} = \frac{7 \cdot 4}{5 \cdot 1} = 5 \frac{3}{5}$$

$$\text{c) } \frac{2}{3} : \frac{10}{43} = \frac{2}{3} \cdot \frac{43}{10} = \frac{1 \cdot 43}{3 \cdot 5} = 2 \frac{13}{15} \quad \text{d) } \frac{4}{25} : \frac{4}{13} = \frac{4}{25} \cdot \frac{13}{4} = \frac{1 \cdot 13}{25 \cdot 1} = \frac{13}{25}$$