

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

① a) $\frac{2}{35} : \frac{2}{13} =$

b) $\frac{6}{7} : \frac{9}{16} =$

c) $\frac{13}{30} : \frac{1}{5} =$

d) $\frac{1}{26} : \frac{3}{8} =$

② a) $\frac{2}{3} : \frac{14}{43} =$

b) $\frac{3}{11} : \frac{4}{33} =$

c) $\frac{3}{28} : \frac{1}{2} =$

d) $\frac{2}{25} : \frac{2}{13} =$

③ a) $\frac{2}{7} : \frac{4}{35} =$

b) $\frac{1}{3} : \frac{1}{45} =$

c) $\frac{3}{5} : \frac{18}{19} =$

d) $\frac{5}{22} : \frac{3}{16} =$

④ a) $\frac{1}{24} : \frac{1}{30} =$

b) $\frac{2}{9} : \frac{7}{12} =$

c) $\frac{1}{20} : \frac{5}{44} =$

d) $\frac{4}{7} : \frac{10}{19} =$

⑤ a) $\frac{19}{42} : \frac{1}{4} =$

b) $\frac{1}{16} : \frac{3}{38} =$

c) $\frac{2}{37} : \frac{2}{11} =$

d) $\frac{3}{22} : \frac{1}{28} =$

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

$$\textcircled{1} \quad \text{a) } \frac{2}{35} : \frac{2}{13} = \frac{2}{35} \cdot \frac{13}{2} = \frac{1 \cdot 13}{35 \cdot 1} = \frac{13}{35} \quad \text{b) } \frac{6}{7} : \frac{9}{16} = \frac{6}{7} \cdot \frac{16}{9} = \frac{2 \cdot 16}{7 \cdot 3} = 1 \frac{11}{21}$$

$$\text{c) } \frac{13}{30} : \frac{1}{5} = \frac{13}{30} \cdot \frac{5}{1} = \frac{13 \cdot 1}{6 \cdot 1} = 2 \frac{1}{6} \quad \text{d) } \frac{1}{26} : \frac{3}{8} = \frac{1}{26} \cdot \frac{8}{3} = \frac{1 \cdot 4}{13 \cdot 3} = \frac{4}{39}$$

$$\textcircled{2} \quad \text{a) } \frac{2}{3} : \frac{14}{43} = \frac{2}{3} \cdot \frac{43}{14} = \frac{1 \cdot 43}{3 \cdot 7} = 2 \frac{1}{21} \quad \text{b) } \frac{3}{11} : \frac{4}{33} = \frac{3}{11} \cdot \frac{33}{4} = \frac{3 \cdot 3}{1 \cdot 4} = 2 \frac{1}{4}$$

$$\text{c) } \frac{3}{28} : \frac{1}{2} = \frac{3}{28} \cdot \frac{2}{1} = \frac{3 \cdot 1}{14 \cdot 1} = \frac{3}{14} \quad \text{d) } \frac{2}{25} : \frac{2}{13} = \frac{2}{25} \cdot \frac{13}{2} = \frac{1 \cdot 13}{25 \cdot 1} = \frac{13}{25}$$

$$\textcircled{3} \quad \text{a) } \frac{2}{7} : \frac{4}{35} = \frac{2}{7} \cdot \frac{35}{4} = \frac{1 \cdot 5}{1 \cdot 2} = 2 \frac{1}{2} \quad \text{b) } \frac{1}{3} : \frac{1}{45} = \frac{1}{3} \cdot \frac{45}{1} = \frac{1 \cdot 15}{1 \cdot 1} = 15$$

$$\text{c) } \frac{3}{5} : \frac{18}{19} = \frac{3}{5} \cdot \frac{19}{18} = \frac{1 \cdot 19}{5 \cdot 6} = \frac{19}{30} \quad \text{d) } \frac{5}{22} : \frac{3}{16} = \frac{5}{22} \cdot \frac{16}{3} = \frac{5 \cdot 8}{11 \cdot 3} = 1 \frac{7}{33}$$

$$\textcircled{4} \quad \text{a) } \frac{1}{24} : \frac{1}{30} = \frac{1}{24} \cdot \frac{30}{1} = \frac{1 \cdot 5}{4 \cdot 1} = 1 \frac{1}{4} \quad \text{b) } \frac{2}{9} : \frac{7}{12} = \frac{2}{9} \cdot \frac{12}{7} = \frac{2 \cdot 4}{3 \cdot 7} = \frac{8}{21}$$

$$\text{c) } \frac{1}{20} : \frac{5}{44} = \frac{1}{20} \cdot \frac{44}{5} = \frac{1 \cdot 11}{5 \cdot 5} = \frac{11}{25} \quad \text{d) } \frac{4}{7} : \frac{10}{19} = \frac{4}{7} \cdot \frac{19}{10} = \frac{2 \cdot 19}{7 \cdot 5} = 1 \frac{3}{35}$$

$$\textcircled{5} \quad \text{a) } \frac{19}{42} : \frac{1}{4} = \frac{19}{42} \cdot \frac{4}{1} = \frac{19 \cdot 2}{21 \cdot 1} = 1 \frac{17}{21} \quad \text{b) } \frac{1}{16} : \frac{3}{38} = \frac{1}{16} \cdot \frac{38}{3} = \frac{1 \cdot 19}{8 \cdot 3} = \frac{19}{24}$$

$$\text{c) } \frac{2}{37} : \frac{2}{11} = \frac{2}{37} \cdot \frac{11}{2} = \frac{1 \cdot 11}{37 \cdot 1} = \frac{11}{37} \quad \text{d) } \frac{3}{22} : \frac{1}{28} = \frac{3}{22} \cdot \frac{28}{1} = \frac{3 \cdot 14}{11 \cdot 1} = 3 \frac{9}{11}$$