

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

① a) $\frac{1}{5} : \frac{12}{35} =$

b) $\frac{7}{24} : \frac{1}{14} =$

c) $\frac{2}{19} : \frac{2}{39} =$

d) $\frac{2}{25} : \frac{4}{11} =$

② a) $\frac{1}{3} : \frac{19}{42} =$

b) $\frac{15}{32} : \frac{1}{4} =$

c) $\frac{8}{19} : \frac{2}{5} =$

d) $\frac{6}{23} : \frac{4}{13} =$

③ a) $\frac{1}{6} : \frac{1}{38} =$

b) $\frac{8}{21} : \frac{2}{9} =$

c) $\frac{1}{12} : \frac{5}{32} =$

d) $\frac{3}{10} : \frac{3}{31} =$

④ a) $\frac{4}{41} : \frac{2}{23} =$

b) $\frac{2}{15} : \frac{5}{18} =$

c) $\frac{2}{11} : \frac{9}{22} =$

d) $\frac{7}{24} : \frac{1}{9} =$

⑤ a) $\frac{2}{35} : \frac{2}{45} =$

b) $\frac{1}{10} : \frac{9}{28} =$

c) $\frac{9}{32} : \frac{3}{5} =$

d) $\frac{2}{33} : \frac{1}{36} =$

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

$$\textcircled{1} \quad \text{a) } \frac{1}{5} : \frac{12}{35} = \frac{1}{5} \cdot \frac{35}{12} = \frac{1 \cdot 7}{1 \cdot 12} = \frac{7}{12} \quad \text{b) } \frac{7}{24} : \frac{1}{14} = \frac{7}{24} \cdot \frac{14}{1} = \frac{7 \cdot 7}{12 \cdot 1} = 4 \frac{1}{12}$$

$$\text{c) } \frac{2}{19} : \frac{2}{39} = \frac{2}{19} \cdot \frac{39}{2} = \frac{1 \cdot 39}{19 \cdot 1} = 2 \frac{1}{19} \quad \text{d) } \frac{2}{25} : \frac{4}{11} = \frac{2}{25} \cdot \frac{11}{4} = \frac{1 \cdot 11}{25 \cdot 2} = \frac{11}{50}$$

$$\textcircled{2} \quad \text{a) } \frac{1}{3} : \frac{19}{42} = \frac{1}{3} \cdot \frac{42}{19} = \frac{1 \cdot 14}{1 \cdot 19} = \frac{14}{19} \quad \text{b) } \frac{15}{32} : \frac{1}{4} = \frac{15}{32} \cdot \frac{4}{1} = \frac{15 \cdot 1}{8 \cdot 1} = 1 \frac{7}{8}$$

$$\text{c) } \frac{8}{19} : \frac{2}{5} = \frac{8}{19} \cdot \frac{5}{2} = \frac{4 \cdot 5}{19 \cdot 1} = 1 \frac{1}{19} \quad \text{d) } \frac{6}{23} : \frac{4}{13} = \frac{6}{23} \cdot \frac{13}{4} = \frac{3 \cdot 13}{23 \cdot 2} = \frac{39}{46}$$

$$\textcircled{3} \quad \text{a) } \frac{1}{6} : \frac{1}{38} = \frac{1}{6} \cdot \frac{38}{1} = \frac{1 \cdot 19}{3 \cdot 1} = 6 \frac{1}{3} \quad \text{b) } \frac{8}{21} : \frac{2}{9} = \frac{8}{21} \cdot \frac{9}{2} = \frac{4 \cdot 3}{7 \cdot 1} = 1 \frac{5}{7}$$

$$\text{c) } \frac{1}{12} : \frac{5}{32} = \frac{1}{12} \cdot \frac{32}{5} = \frac{1 \cdot 8}{3 \cdot 5} = \frac{8}{15} \quad \text{d) } \frac{3}{10} : \frac{3}{31} = \frac{3}{10} \cdot \frac{31}{3} = \frac{1 \cdot 31}{10 \cdot 1} = 3 \frac{1}{10}$$

$$\textcircled{4} \quad \text{a) } \frac{4}{41} : \frac{2}{23} = \frac{4}{41} \cdot \frac{23}{2} = \frac{2 \cdot 23}{41 \cdot 1} = 1 \frac{5}{41} \quad \text{b) } \frac{2}{15} : \frac{5}{18} = \frac{2}{15} \cdot \frac{18}{5} = \frac{2 \cdot 6}{5 \cdot 5} = \frac{12}{25}$$

$$\text{c) } \frac{2}{11} : \frac{9}{22} = \frac{2}{11} \cdot \frac{22}{9} = \frac{2 \cdot 2}{1 \cdot 9} = \frac{4}{9} \quad \text{d) } \frac{7}{24} : \frac{1}{9} = \frac{7}{24} \cdot \frac{9}{1} = \frac{7 \cdot 3}{8 \cdot 1} = 2 \frac{5}{8}$$

$$\textcircled{5} \quad \text{a) } \frac{2}{35} : \frac{2}{45} = \frac{2}{35} \cdot \frac{45}{2} = \frac{1 \cdot 9}{7 \cdot 1} = 1 \frac{2}{7} \quad \text{b) } \frac{1}{10} : \frac{9}{28} = \frac{1}{10} \cdot \frac{28}{9} = \frac{1 \cdot 14}{5 \cdot 9} = \frac{14}{45}$$

$$\text{c) } \frac{9}{32} : \frac{3}{5} = \frac{9}{32} \cdot \frac{5}{3} = \frac{3 \cdot 5}{32 \cdot 1} = \frac{15}{32} \quad \text{d) } \frac{2}{33} : \frac{1}{36} = \frac{2}{33} \cdot \frac{36}{1} = \frac{2 \cdot 12}{11 \cdot 1} = 2 \frac{2}{11}$$