

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

① a) $\frac{7}{12} : \frac{3}{4} =$

b) $\frac{1}{2} : \frac{5}{36} =$

c) $\frac{1}{24} : \frac{1}{39} =$

d) $\frac{6}{17} : \frac{3}{5} =$

② a) $\frac{1}{4} : \frac{15}{28} =$

b) $\frac{11}{14} : \frac{5}{7} =$

c) $\frac{5}{33} : \frac{1}{15} =$

d) $\frac{3}{23} : \frac{3}{22} =$

③ a) $\frac{1}{3} : \frac{19}{39} =$

b) $\frac{2}{7} : \frac{8}{31} =$

c) $\frac{2}{35} : \frac{1}{40} =$

d) $\frac{2}{5} : \frac{19}{30} =$

④ a) $\frac{7}{11} : \frac{2}{11} =$

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

c) $\frac{1}{15} : \frac{3}{40} =$

d) $\frac{2}{45} : \frac{1}{18} =$

⑤ a) $\frac{1}{3} : \frac{7}{39} =$

b) $\frac{2}{7} : \frac{4}{21} =$

c) $\frac{1}{4} : \frac{13}{14} =$

d) $\frac{1}{6} : \frac{1}{36} =$

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

① a) $\frac{7}{12} : \frac{3}{4} = \frac{7}{12} \cdot \frac{4}{3} = \frac{7 \cdot 1}{3 \cdot 3} = \frac{7}{9}$ b) $\frac{1}{2} : \frac{5}{36} = \frac{1}{2} \cdot \frac{36}{5} = \frac{1 \cdot 18}{1 \cdot 5} = 3 \frac{3}{5}$

c) $\frac{1}{24} : \frac{1}{39} = \frac{1}{24} \cdot \frac{39}{1} = \frac{1 \cdot 13}{8 \cdot 1} = 1 \frac{5}{8}$ d) $\frac{6}{17} : \frac{3}{5} = \frac{6}{17} \cdot \frac{5}{3} = \frac{2 \cdot 5}{17 \cdot 1} = \frac{10}{17}$

② a) $\frac{1}{4} : \frac{15}{28} = \frac{1}{4} \cdot \frac{28}{15} = \frac{1 \cdot 7}{1 \cdot 15} = \frac{7}{15}$ b) $\frac{11}{14} : \frac{5}{7} = \frac{11}{14} \cdot \frac{7}{5} = \frac{11 \cdot 1}{2 \cdot 5} = 1 \frac{1}{10}$

c) $\frac{5}{33} : \frac{1}{15} = \frac{5}{33} \cdot \frac{15}{1} = \frac{5 \cdot 5}{11 \cdot 1} = 2 \frac{3}{11}$ d) $\frac{3}{23} : \frac{3}{22} = \frac{3}{23} \cdot \frac{22}{3} = \frac{1 \cdot 22}{23 \cdot 1} = \frac{22}{23}$

③ a) $\frac{1}{3} : \frac{19}{39} = \frac{1}{3} \cdot \frac{39}{19} = \frac{1 \cdot 13}{1 \cdot 19} = \frac{13}{19}$ b) $\frac{2}{7} : \frac{8}{31} = \frac{2}{7} \cdot \frac{31}{8} = \frac{1 \cdot 31}{7 \cdot 4} = 1 \frac{3}{28}$

c) $\frac{2}{35} : \frac{1}{40} = \frac{2}{35} \cdot \frac{40}{1} = \frac{2 \cdot 8}{7 \cdot 1} = 2 \frac{2}{7}$ d) $\frac{2}{5} : \frac{19}{30} = \frac{2}{5} \cdot \frac{30}{19} = \frac{2 \cdot 6}{1 \cdot 19} = \frac{12}{19}$

④ a) $\frac{7}{11} : \frac{2}{11} = \frac{7}{11} \cdot \frac{11}{2} = \frac{7 \cdot 1}{1 \cdot 2} = 3 \frac{1}{2}$ b) $\frac{3}{10} : \frac{7}{25} = \frac{3}{10} \cdot \frac{25}{7} = \frac{3 \cdot 5}{2 \cdot 7} = 1 \frac{1}{14}$

c) $\frac{1}{15} : \frac{3}{40} = \frac{1}{15} \cdot \frac{40}{3} = \frac{1 \cdot 8}{3 \cdot 3} = \frac{8}{9}$ d) $\frac{2}{45} : \frac{1}{18} = \frac{2}{45} \cdot \frac{18}{1} = \frac{2 \cdot 2}{5 \cdot 1} = \frac{4}{5}$

⑤ a) $\frac{1}{3} : \frac{7}{39} = \frac{1}{3} \cdot \frac{39}{7} = \frac{1 \cdot 13}{1 \cdot 7} = 1 \frac{6}{7}$ b) $\frac{2}{7} : \frac{4}{21} = \frac{2}{7} \cdot \frac{21}{4} = \frac{1 \cdot 3}{1 \cdot 2} = 1 \frac{1}{2}$

c) $\frac{1}{4} : \frac{13}{14} = \frac{1}{4} \cdot \frac{14}{13} = \frac{1 \cdot 7}{2 \cdot 13} = \frac{7}{26}$ d) $\frac{1}{6} : \frac{1}{36} = \frac{1}{6} \cdot \frac{36}{1} = \frac{1 \cdot 6}{1 \cdot 1} = 6$