

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

① a) $\frac{5}{6} : \frac{1}{10} =$

b) $\frac{1}{15} : \frac{4}{5} =$

c) $\frac{2}{43} : \frac{2}{19} =$

d) $\frac{1}{2} : \frac{1}{12} =$

② a) $\frac{2}{9} : \frac{4}{29} =$

b) $\frac{3}{4} : \frac{13}{16} =$

c) $\frac{1}{24} : \frac{3}{44} =$

d) $\frac{2}{7} : \frac{5}{28} =$

③ a) $\frac{2}{13} : \frac{1}{13} =$

b) $\frac{6}{25} : \frac{3}{10} =$

c) $\frac{3}{20} : \frac{5}{26} =$

d) $\frac{11}{12} : \frac{1}{9} =$

④ a) $\frac{3}{17} : \frac{2}{17} =$

b) $\frac{18}{25} : \frac{3}{4} =$

c) $\frac{8}{21} : \frac{1}{3} =$

d) $\frac{1}{2} : \frac{11}{26} =$

⑤ a) $\frac{2}{15} : \frac{5}{9} =$

b) $\frac{5}{14} : \frac{7}{16} =$

c) $\frac{4}{45} : \frac{1}{20} =$

d) $\frac{1}{12} : \frac{2}{39} =$

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

- ① a) $\frac{5}{6} : \frac{1}{10} = \frac{5}{6} \cdot \frac{10}{1} = \frac{5 \cdot 5}{3 \cdot 1} = 8 \frac{1}{3}$ b) $\frac{1}{15} : \frac{4}{5} = \frac{1}{15} \cdot \frac{5}{4} = \frac{1 \cdot 1}{3 \cdot 4} = \frac{1}{12}$
- c) $\frac{2}{43} : \frac{2}{19} = \frac{2}{43} \cdot \frac{19}{2} = \frac{1 \cdot 19}{43 \cdot 1} = \frac{19}{43}$ d) $\frac{1}{2} : \frac{1}{12} = \frac{1}{2} \cdot \frac{12}{1} = \frac{1 \cdot 6}{1 \cdot 1} = 6$
- ② a) $\frac{2}{9} : \frac{4}{29} = \frac{2}{9} \cdot \frac{29}{4} = \frac{1 \cdot 29}{9 \cdot 2} = 1 \frac{11}{18}$ b) $\frac{3}{4} : \frac{13}{16} = \frac{3}{4} \cdot \frac{16}{13} = \frac{3 \cdot 4}{1 \cdot 13} = \frac{12}{13}$
- c) $\frac{1}{24} : \frac{3}{44} = \frac{1}{24} \cdot \frac{44}{3} = \frac{1 \cdot 11}{6 \cdot 3} = \frac{11}{18}$ d) $\frac{2}{7} : \frac{5}{28} = \frac{2}{7} \cdot \frac{28}{5} = \frac{2 \cdot 4}{1 \cdot 5} = 1 \frac{3}{5}$
- ③ a) $\frac{2}{13} : \frac{1}{13} = \frac{2}{13} \cdot \frac{13}{1} = \frac{2 \cdot 1}{1 \cdot 1} = 2$ b) $\frac{6}{25} : \frac{3}{10} = \frac{6}{25} \cdot \frac{10}{3} = \frac{2 \cdot 2}{5 \cdot 1} = \frac{4}{5}$
- c) $\frac{3}{20} : \frac{5}{26} = \frac{3}{20} \cdot \frac{26}{5} = \frac{3 \cdot 13}{10 \cdot 5} = \frac{39}{50}$ d) $\frac{11}{12} : \frac{1}{9} = \frac{11}{12} \cdot \frac{9}{1} = \frac{11 \cdot 3}{4 \cdot 1} = 8 \frac{1}{4}$
- ④ a) $\frac{3}{17} : \frac{2}{17} = \frac{3}{17} \cdot \frac{17}{2} = \frac{3 \cdot 1}{1 \cdot 2} = 1 \frac{1}{2}$ b) $\frac{18}{25} : \frac{3}{4} = \frac{18}{25} \cdot \frac{4}{3} = \frac{6 \cdot 4}{25 \cdot 1} = \frac{24}{25}$
- c) $\frac{8}{21} : \frac{1}{3} = \frac{8}{21} \cdot \frac{3}{1} = \frac{8 \cdot 1}{7 \cdot 1} = 1 \frac{1}{7}$ d) $\frac{1}{2} : \frac{11}{26} = \frac{1}{2} \cdot \frac{26}{11} = \frac{1 \cdot 13}{1 \cdot 11} = 1 \frac{2}{11}$
- ⑤ a) $\frac{2}{15} : \frac{5}{9} = \frac{2}{15} \cdot \frac{9}{5} = \frac{2 \cdot 3}{5 \cdot 5} = \frac{6}{25}$ b) $\frac{5}{14} : \frac{7}{16} = \frac{5}{14} \cdot \frac{16}{7} = \frac{5 \cdot 8}{7 \cdot 7} = \frac{40}{49}$
- c) $\frac{4}{45} : \frac{1}{20} = \frac{4}{45} \cdot \frac{20}{1} = \frac{4 \cdot 4}{9 \cdot 1} = 1 \frac{7}{9}$ d) $\frac{1}{12} : \frac{2}{39} = \frac{1}{12} \cdot \frac{39}{2} = \frac{1 \cdot 13}{4 \cdot 2} = 1 \frac{5}{8}$